

DATE 6-19-00 ✓

PWSID 04-67-043

WELL # 701 ✓

WELL NAME Holcomb Blvd 701

BLDG. 701 ✓

CODE G

AVAILABILITY P

LOCATION Charles Street

LATITUDE 34.71047 ✓

LONGITUDE -77.37713 ✓

WELL DIAMETER 10"

WELL DEPTH 106'

SCREEN INTERVAL 66'-106'

YIELD 260 GPM

STATIC LEVEL 33'

PUMPING LEVEL 62'

PUMP TYPE Vertical Turbine

MOTOR HP 15

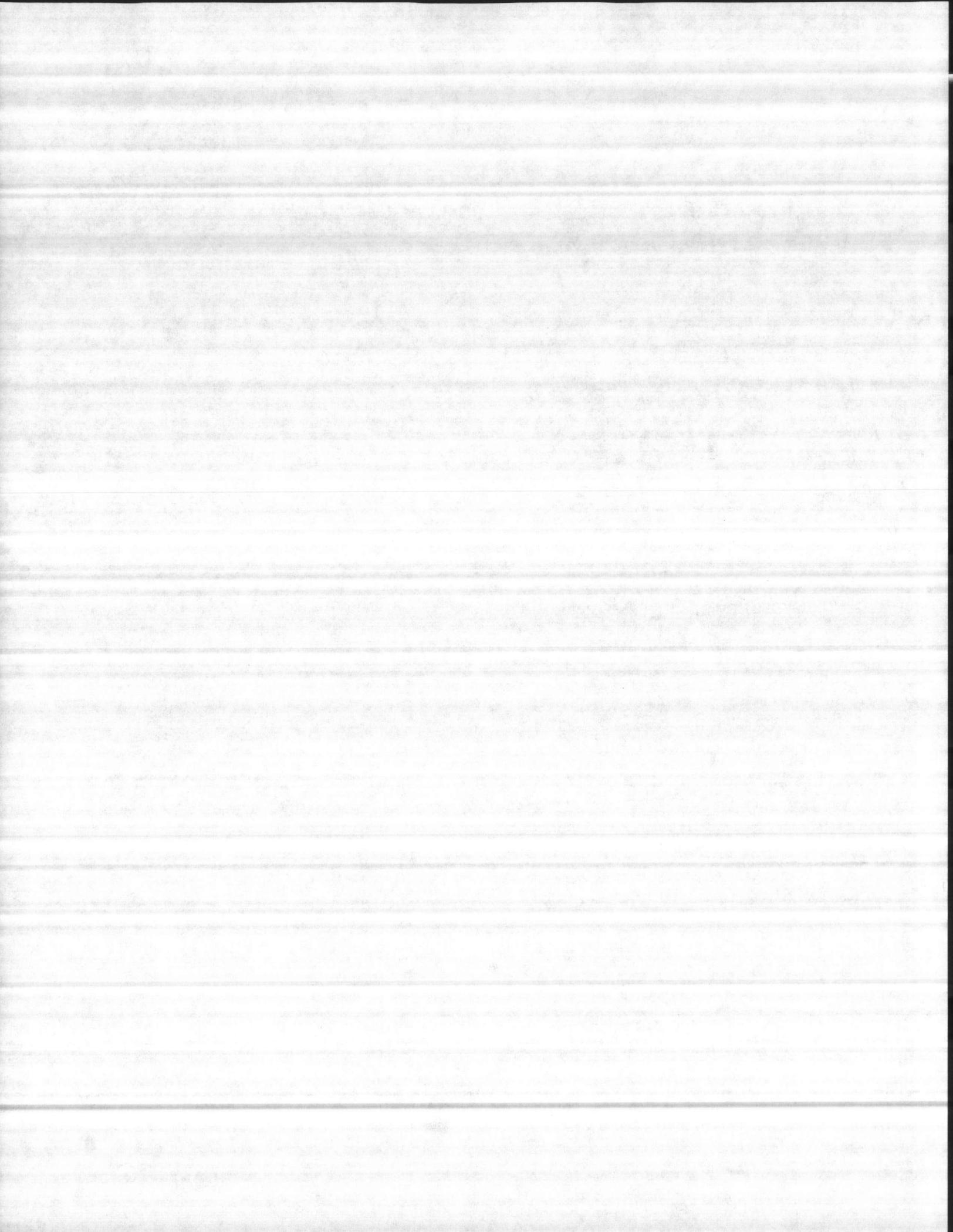
INTAKE DEPTH 86'

DESIGN CAPACITY 250 GPM x

ACTUAL GPM 185 GPM

SIZE OF CONCRETE SLAB 32 1/2" x 32 1/2"

HEIGHT OF CASING 18"



SOURCE INFORMATION GROUND WATER

Date Form Completed

M	M	D	D	Y	Y
0	1	5	7	9	5

PW/SID
0467043

Owner Assigned Source Code

Well Name (If purchase, name of system)

701 H O L C O M B B I V D 7 0 1

Code

G

G=Ground
W=Purchase/G
Y=G w/direct influence
Z=W w/direct influence

If Purchase, seller ID#

Source Begin Date

Source exempt—
SWTR?

Direct Influence Date

 M M Y Y Y N M M D D Y Y

Availability

P

P=Permanent
E=Emergency
S=Seasonal
I=Interim
O=Other

Location of well within the system (If purchase, location of master meter)

C H A R I E S S T R E E T

Latitude (N)

Longitude (W)

How Determined

GPS Data

No. of Sats. Locked on

3 4 4 2 3 3 5 0 7 7 2 2 4 5 5 G G 4 4

(If purchase, use seller's primary source lat/long)

Vulnerable (VOCs)

Y N

Assessment Date

M M D D Y Y

ENTRY POINT INFORMATION

Owner Assigned Entry Point Code

Entry Point Name

Use Code

C=Ground/Permanent
D=Ground/non-permanent

Availability

P=Year-round
E=Emergency
S=Seasonal
I=Interim
O=Other

200 ~~H B 7 0 M C B~~ H O L C O M B A C R O W T P I

Location:

Well Site: Owned or controlled? (Y,N) Control Area (100' radius)? (Y,N) If no, explain: _____

Sources of pollution/distance: None

Surface water within 200'? (Y,N) If yes, actual distance _____ feet If yes, bact. samples collected? _____ (Y,N)

Adequate slope? (Y,N) Flooding? (Y,N) Maintenance: OK

Well House: Free of stored materials? (Y,N) Properly drained? (Y,N) Locked? (Y,N)

Condition of house: OK Type of freeze protection: Elect heat

Well: Diameter: 10" Type: Drilled Paired Yield (gpm): 260 Properly sealed? (Y,N)

Properly vented? (Y,N) Casing depth 50' ft. (If unknown, put 'UNK') Well depth: 106' Meter available? (Y,N)

Concrete slab adequate? _____ (Y,N) If no, explain: _____ Size: 76x6

Size of blow-off: 4" Sample tap: Before treatment? (Y,N) After treatment? _____ (Y,N)

Pumps: Capacity: GPM: 185 HP: 15 Pump intake depth: 86 Auxiliary Power? (Y,N)

Type pump: Vertical Turbine Height above floor (pump/casing): 18"

Storage at well site: Elev: _____ Hydro: _____ Ground: _____

If hydroautomatic, air volume control? _____ (Y,N) Safety valves? _____ (Y,N) Coded? _____ (Y,N)

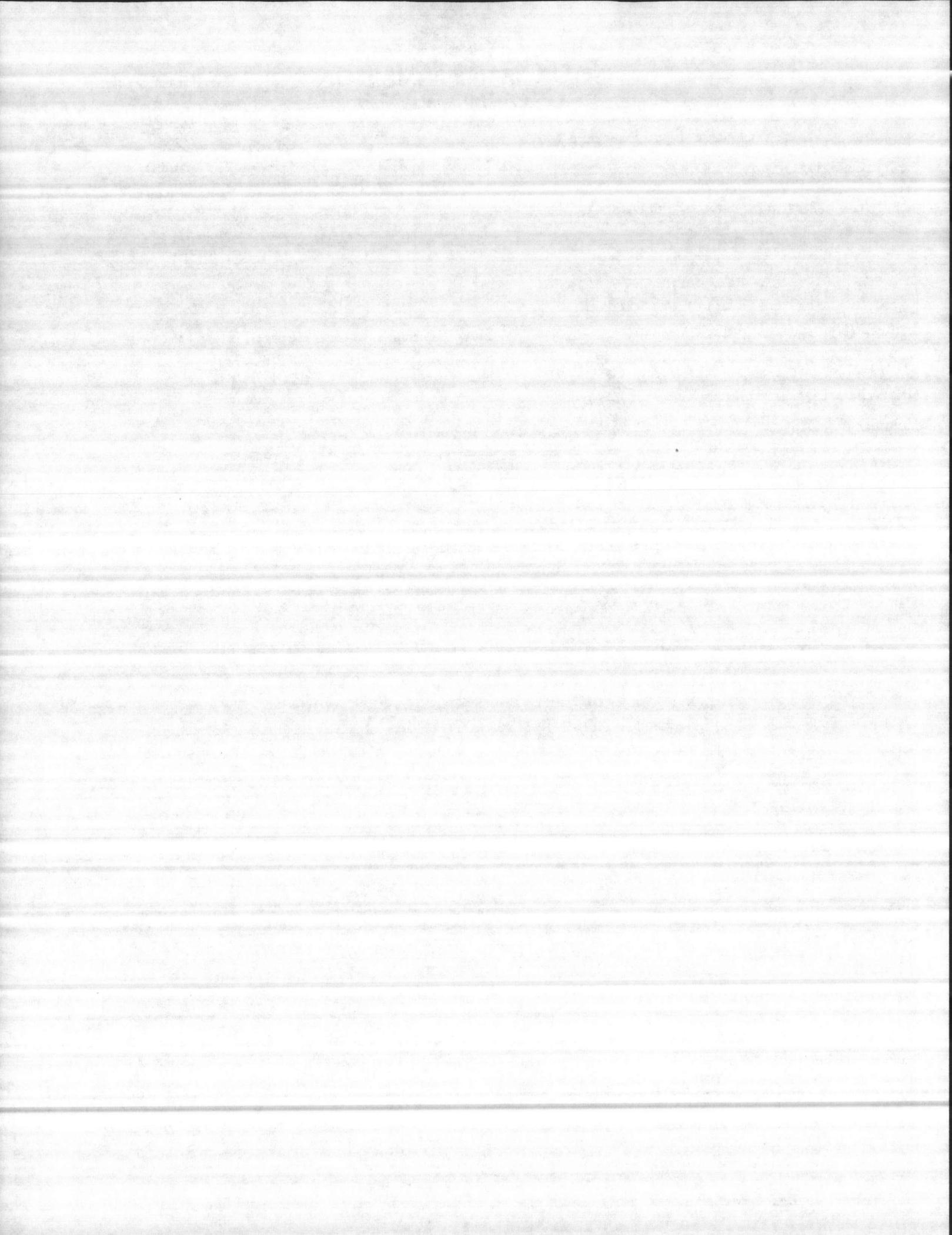
High service pumps: 1. _____ gpm _____ hp 2. _____ gpm _____ hp 3. _____ gpm _____ hp Auxiliary Power? _____ (Y,N)

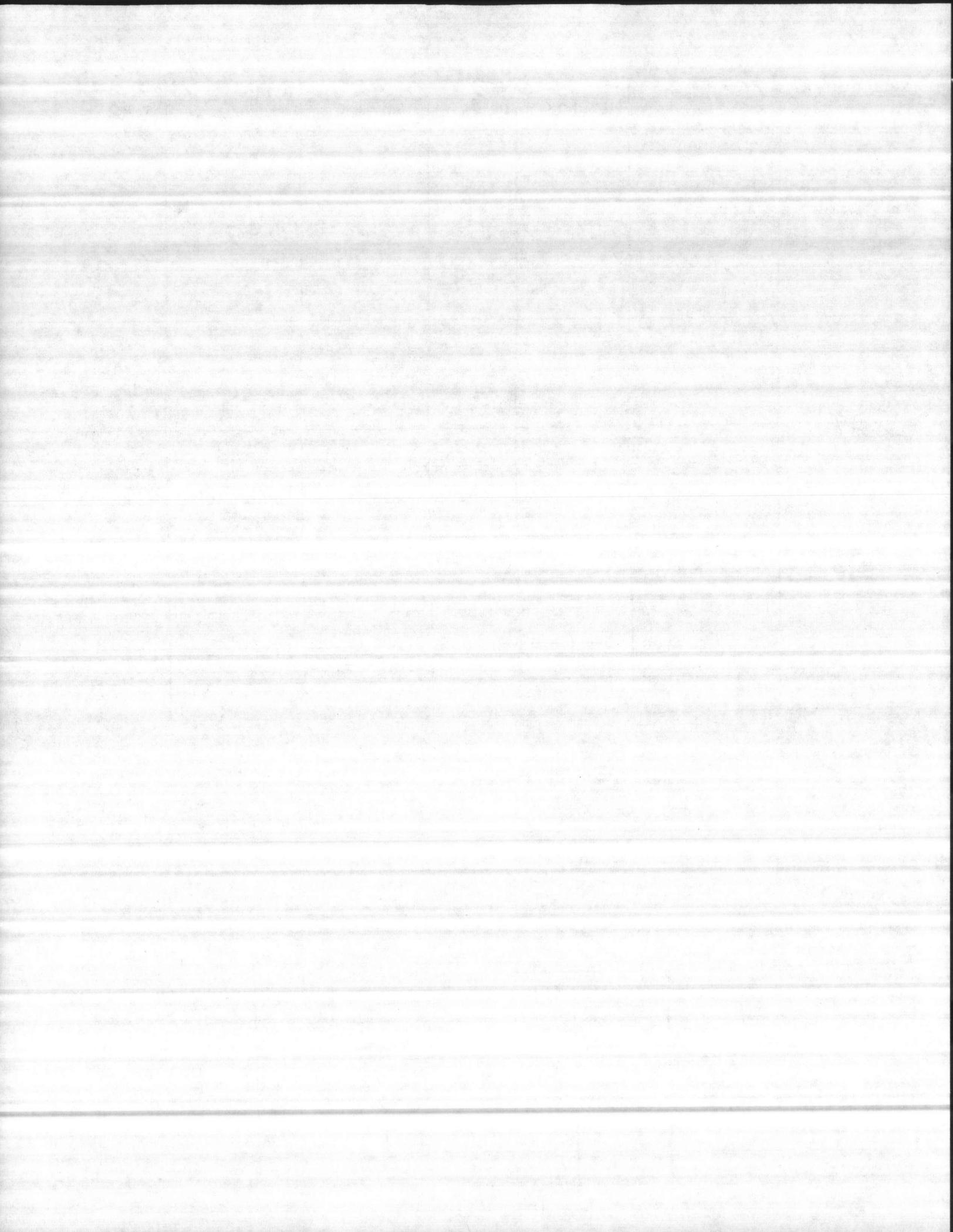
Is the water treated at this well? (Y,N) If yes, complete back of form.

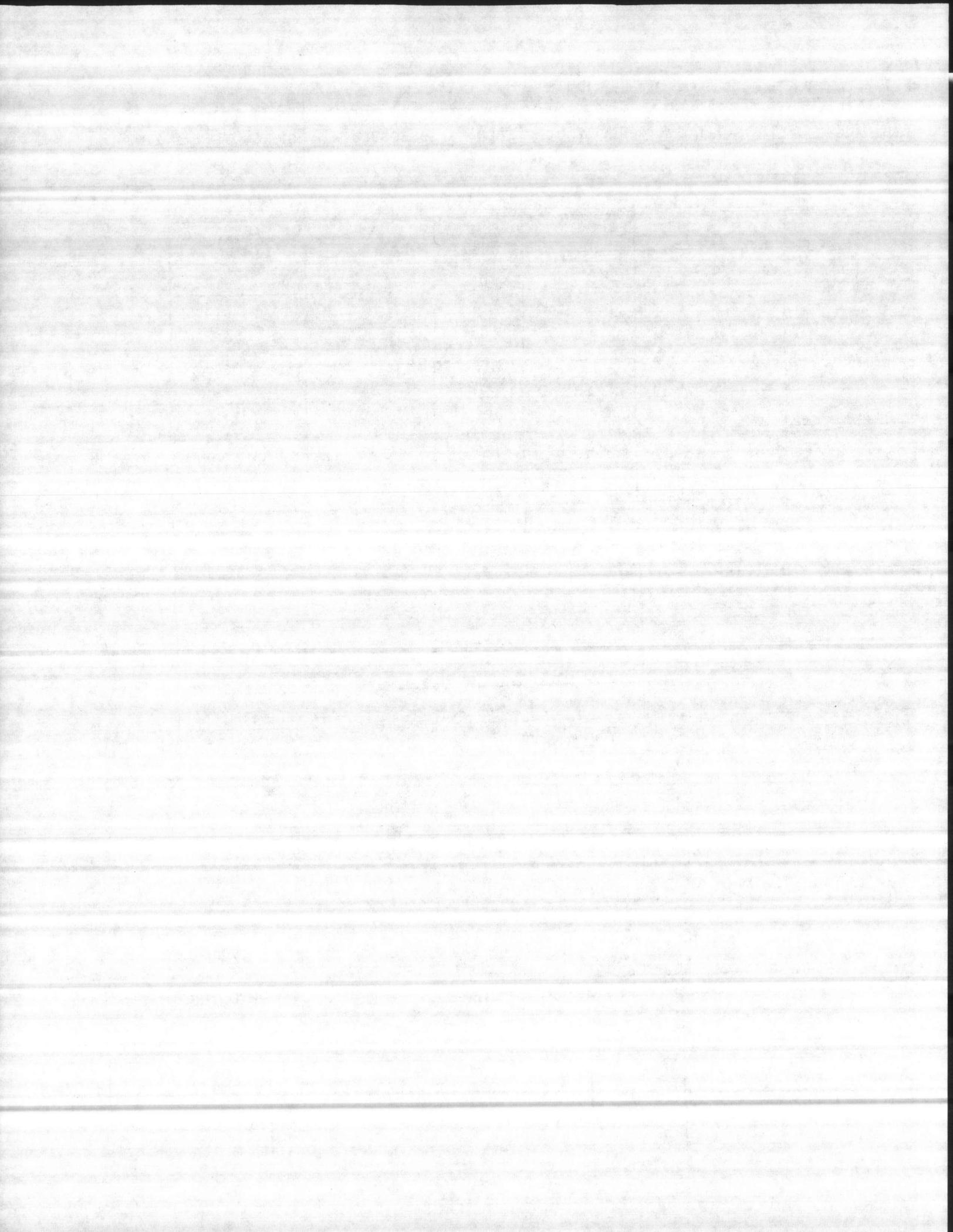
If other wells are treated here, which ones? _____ If treated elsewhere, where? H B 6 7 0 P I A N T

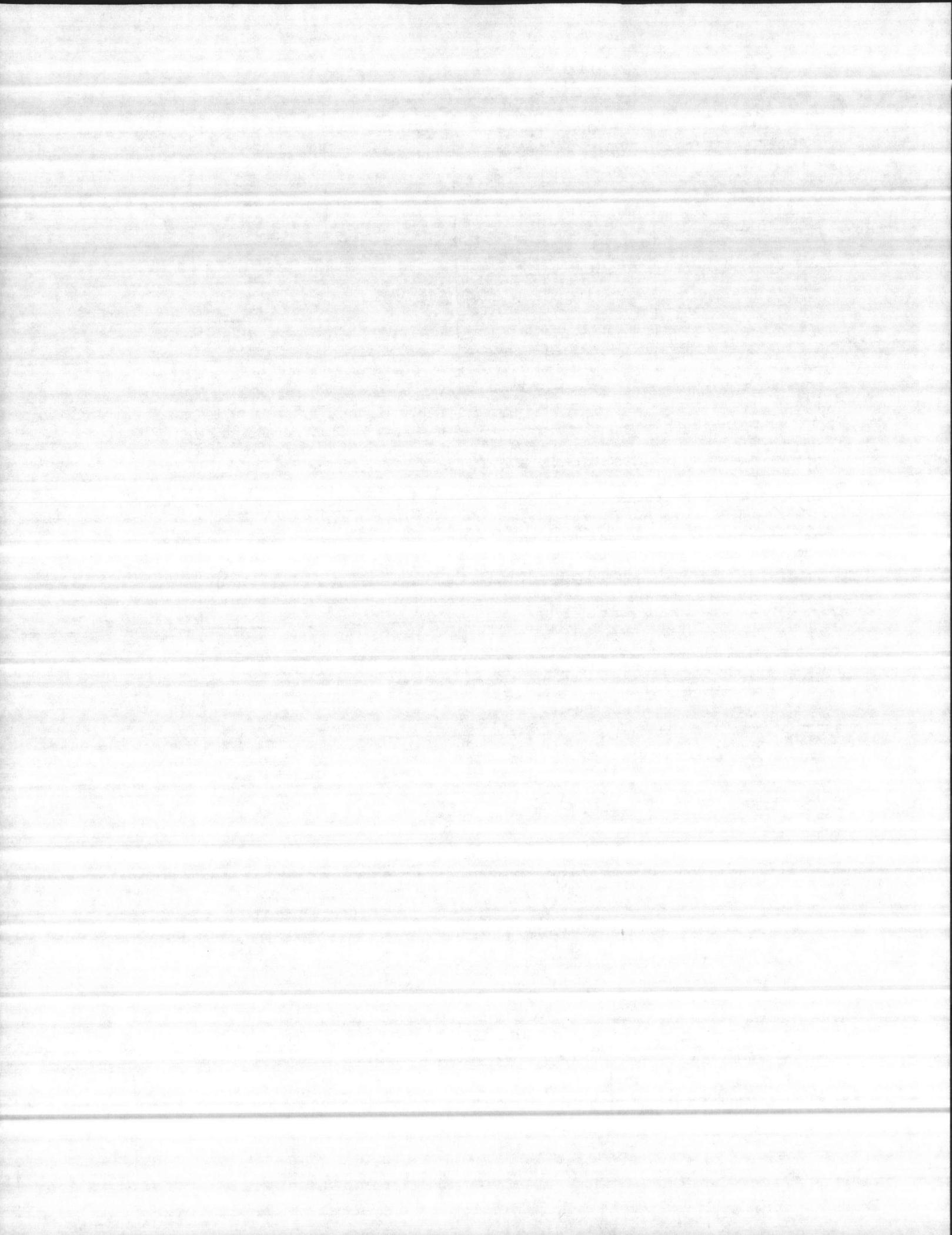
If purchase, retreat? (Y,N) If yes, complete back of form.

① No Vent
② Leak @ gate valve





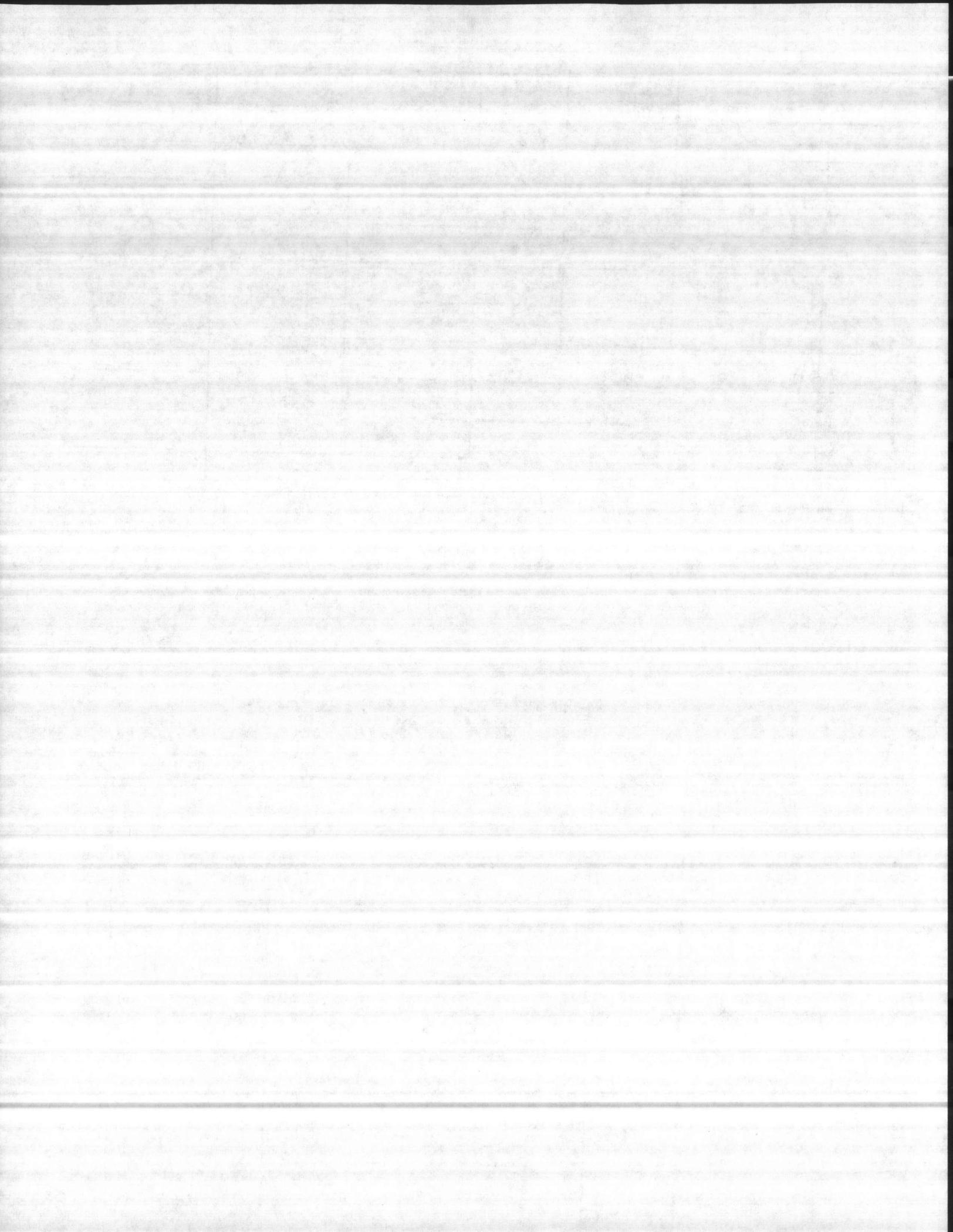


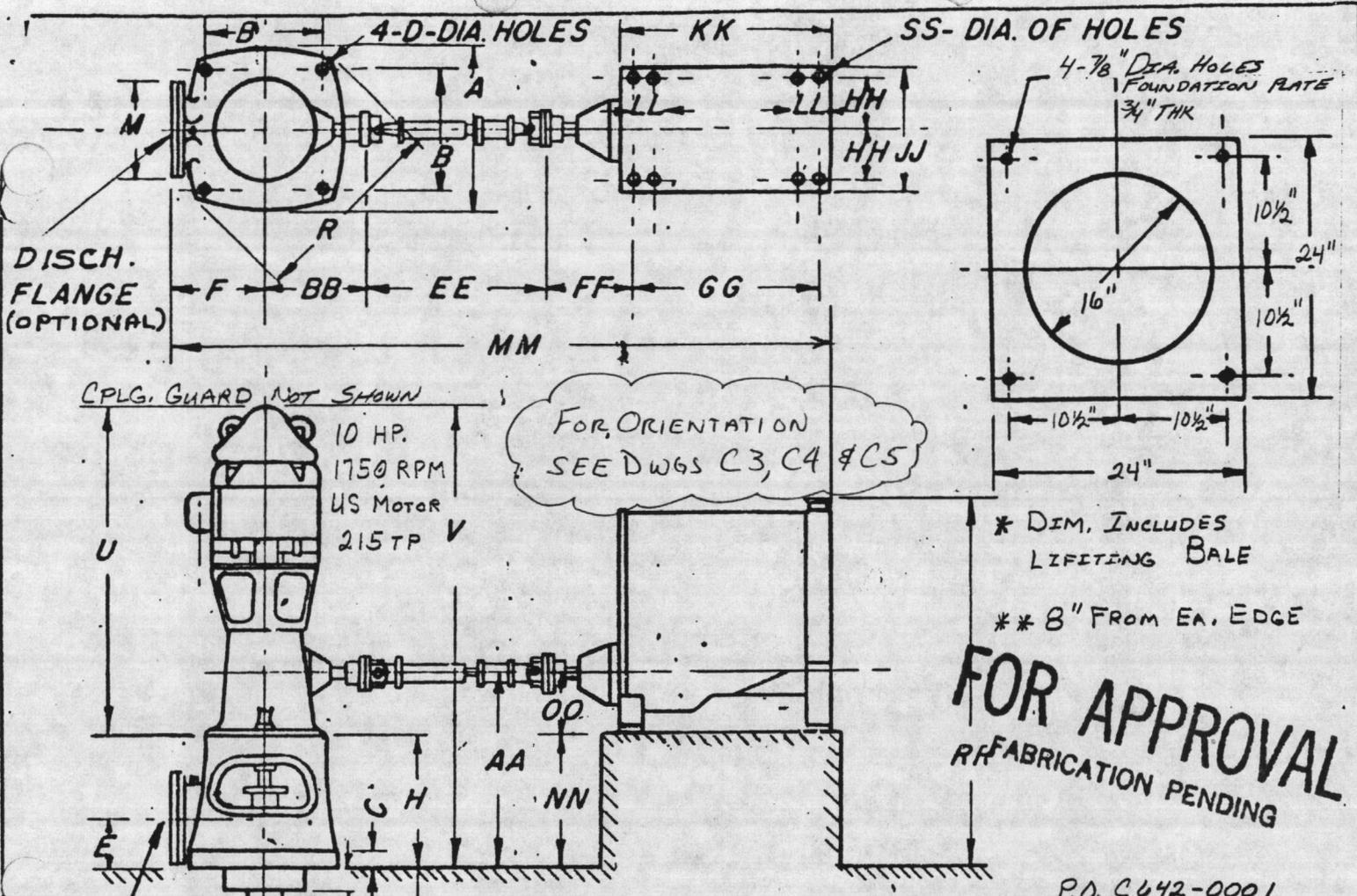


LL NUMBER 701		BY THOMAS/COSBY			DATE 3-1-90	
R LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
88	34	50	16	49	111	00
		58	24	41	159	10
		62	28	34	180	20
		64	30	29	190	30
		66	32	25	199	40
		68	34	20	214	50
88 →		70	36	15	224	00
		72	38	10	236	10

REMARKS Dead head @ 67 PSI

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE





FOR ORIENTATION
SEE DWGS C3, C4 & C5

FOR APPROVAL
R/FABRICATION PENDING

P.O. C642-0001

HARRY PEPPER & ASSOC. INC. S.O. 1635-06

DIMENSIONS			
A	17"	Z	11'-0 3/8"
B	14 1/2"	CS	85'-11 1/4"
C	2"	OA	101'-0 3/8"
D	7/8"	AA	1'-10 1/4"
E	6 1/2"	BB	10 7/8"
F	9"	EE	24"
G	3 3/4"	FF	21 1/16"
H	15 1/2"	GG	29"
J	9 7/8"	HH	11 1/4"
M	11"	JJ	20"
N	6"	KK	45"
R	23"	LL	-
T	-	MM	7'-4 7/8"
U	4'-3 9/16"	NN	10 1/4"
V	5'-7 1/16"	OO	12"
W	6 1/4"	RR	56 1/4" *
X	7 1/2"	SS	5/8" **
Y	4'-0 3/4"	TT	5"

"N" 125# ASA DISCHARGE

5" x 1" COL. & SHAFT

5-STAGES

TT-SIZE OF SUCTION PIPE & RAINER

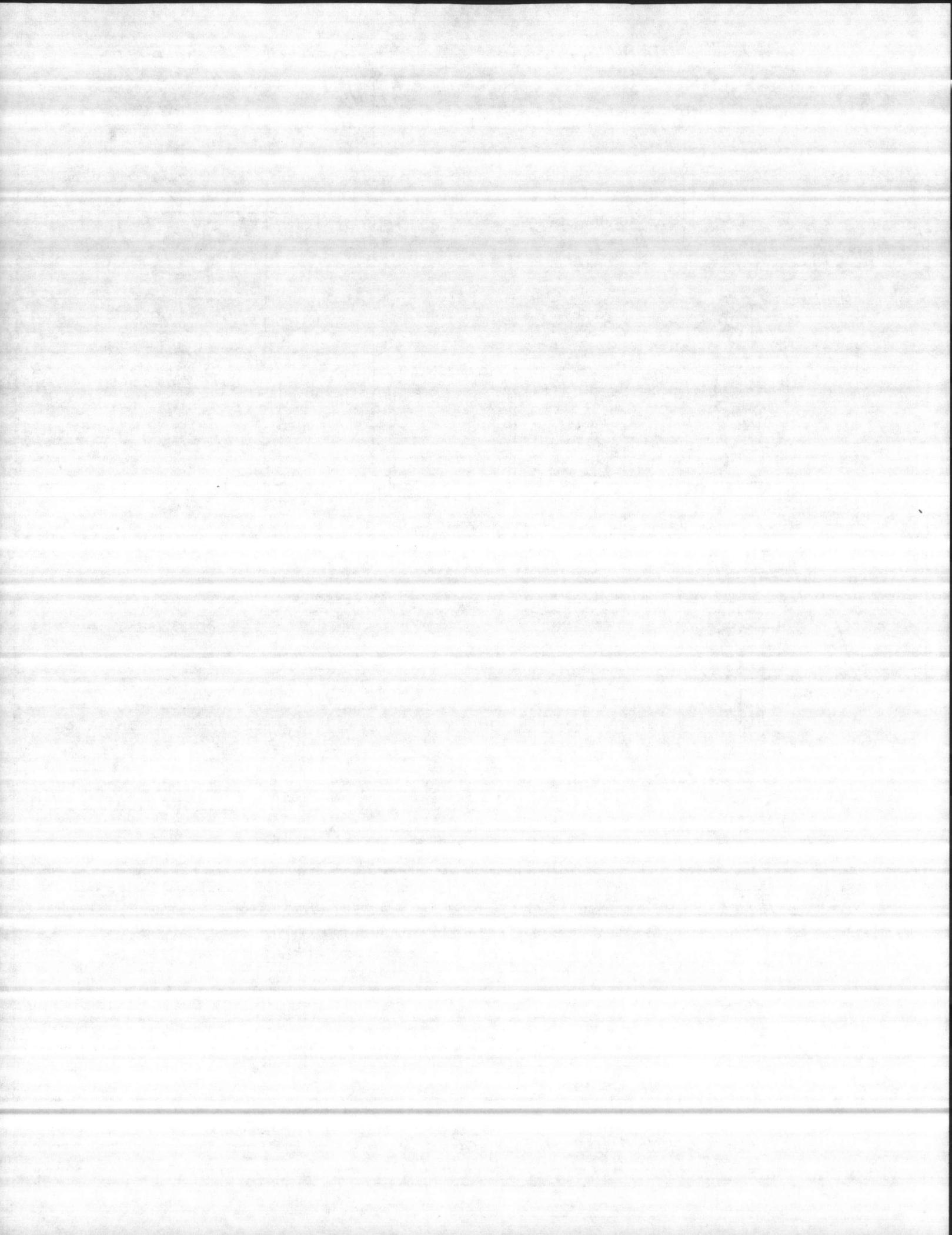
CAMP LEJEUNE NO. 6 WELL
TITLE
 VERTICAL TURBINE PUMP WITH COMBINATION RIGHT ANGLE GEAR DRIVE WITH ENGINE & MOTOR

DATE OF ISSUE
 3-1-85
 DESTROY ALL PREVIOUS PRINTS

THE DEMING CO.
 SALEM, OHIO
 RPW

DATE 1-26-81 SCALE NONE

FIG. 4700 SIZE M8
 DRAWING NO. T82513



CAMP LEJEUNE No. 4 WELL

DEMING PUMP CO.

SALEM, OHIO, U.S.A.

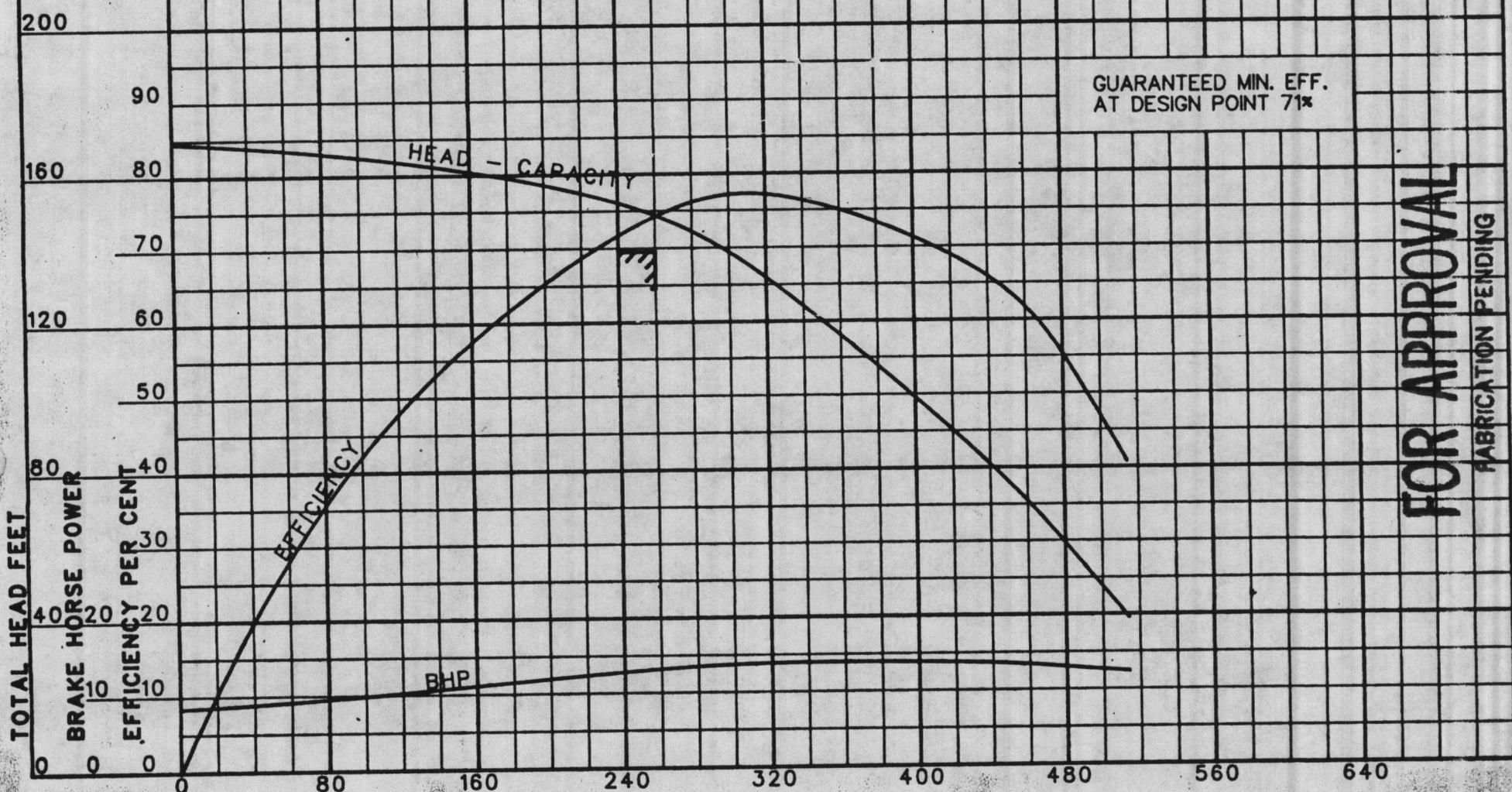
CHARACTERISTIC CURVES

240 HARRY PEPPER & ASSOC. INC. S.O. 11635-04 P.O. C642-0001

FIG. 4700 SIZE M 8 STAGES 6 IMPELLER 22665

DESIGNED RATING: G.P.M. 260 HEAD 139 R.P.M. 1770

OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE



GUARANTEED MIN. EFF. AT DESIGN POINT 71%

FOR APPROVAL
FABRICATION PENDING

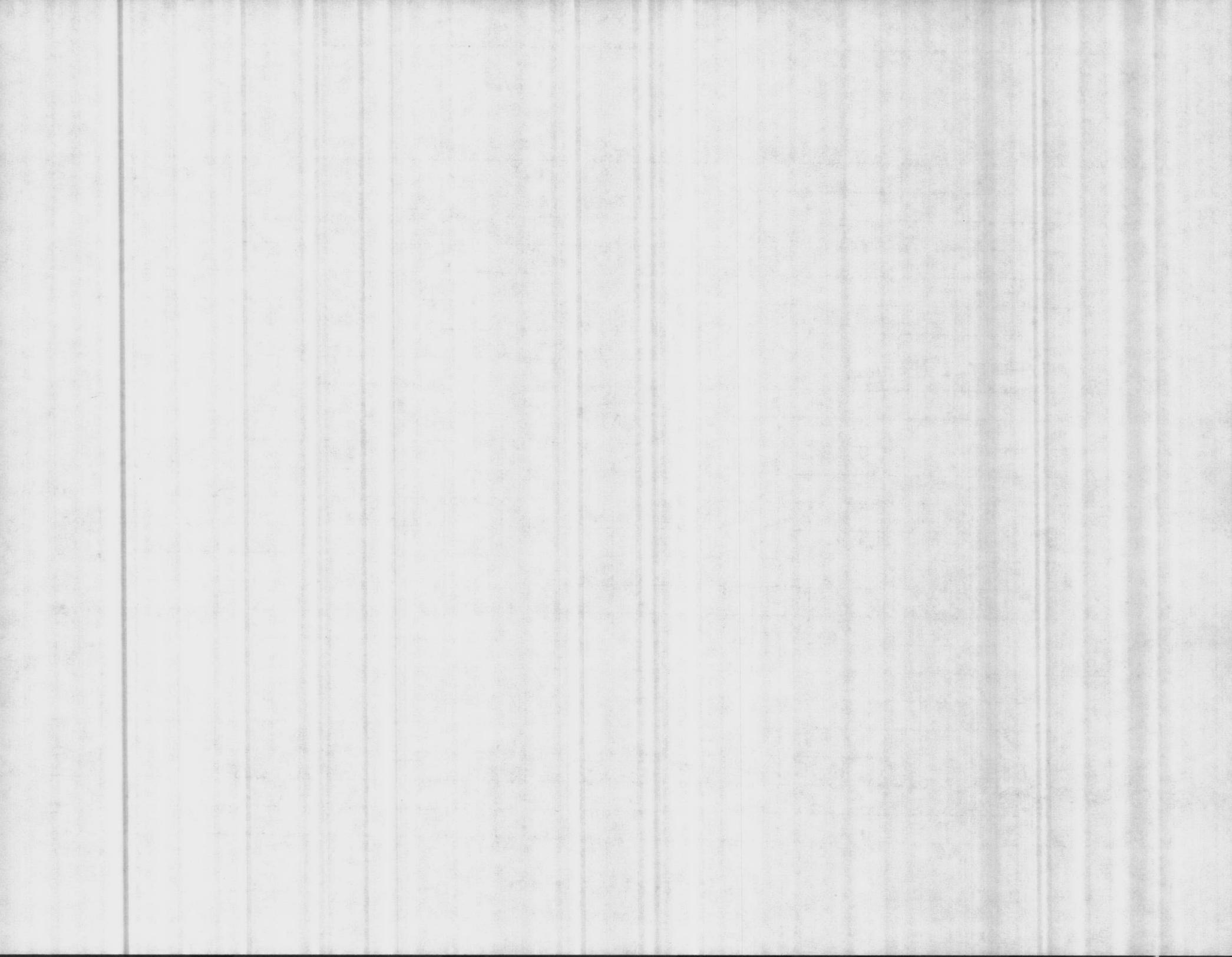
SERIAL NO. ****

U. S. GALLONS PER MINUTE

DATE 2-25-85

IN. DIA. 5 5/8"

NO. Q23647



Hunt

5/02

CONTRACTOR'S SUBMITTAL TRANSMITTAL

LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 81-C-1644	TRANSMITTAL NO 213	DATE 5-30-86
--------------------------	-----------------------	-----------------

FROM CONTRACTOR
Harry Pepper & Associates, Inc.

PROJECT TITLE AND LOCATION
Holcomb Blvd Water Treatment Plant

TO
Henry Von Oesen & Associates, Inc.

MCB, Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

REVIEWER USE ONLY

*List only one specification division per form.

****ACTION CODES**

List only one of the following categories on each transmittal form, and indicate which is being submitted

- A-Approved
- D-Disapproved
- AN-Approved as noted
- RA-Receipt acknowledged
- C-Comments
- R-Resubmit

- Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
	02734	ROTARY DRILLED WATER WELLS			
1	1.2.1	Shop Drawings	7	A	JRB

CONTRACTOR'S COMMENTS

An Additional ten (10) feet of screen was added.

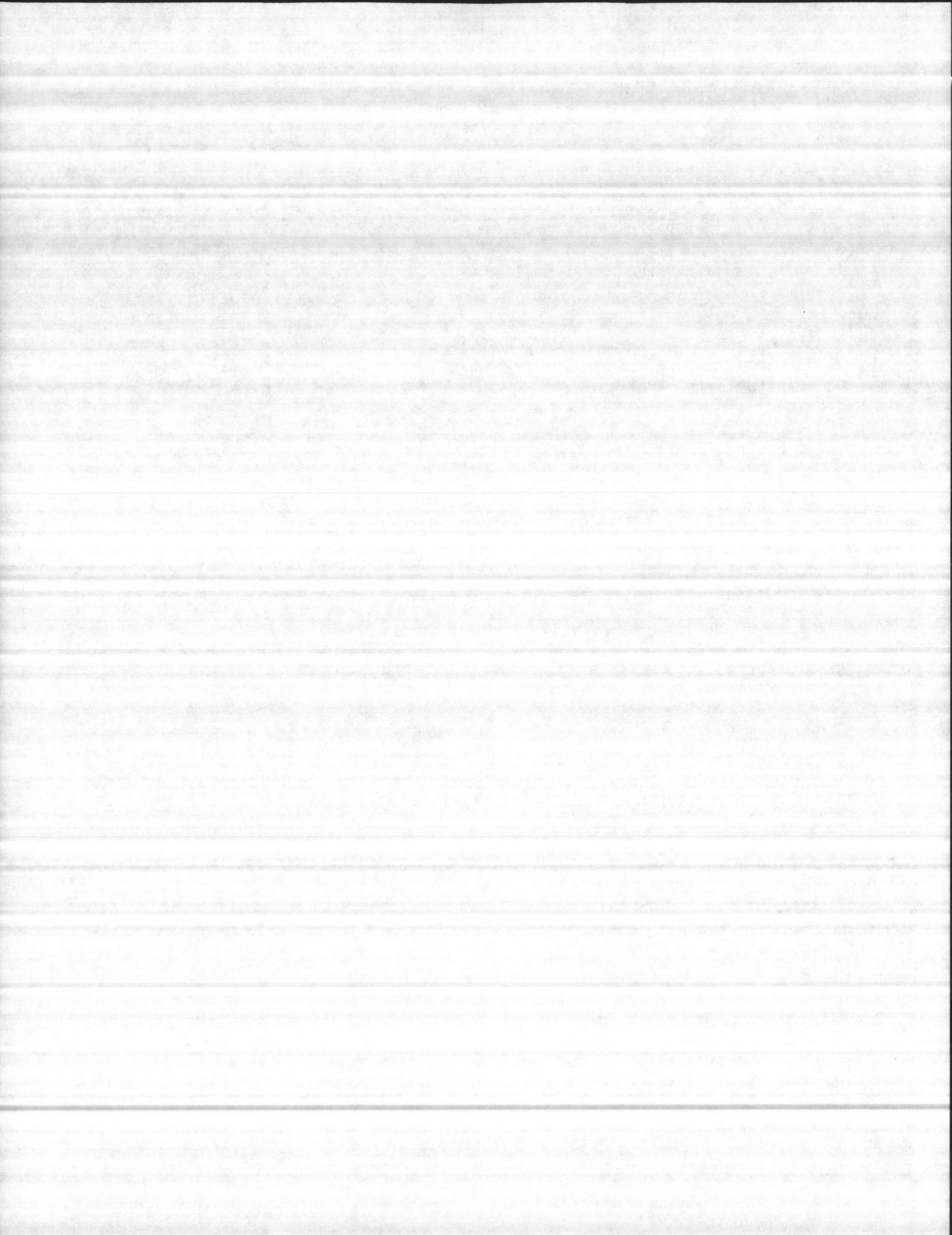
This Shop Drawing replaces Shop Drawing previously submitted. See Item # 6, Transmittal # 105, dated 10-16-85.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC ONE COPY TO ROICC		CONTRACTOR REPRESENTATIVE (Signature) Phil Reese <i>Phil Reese</i>	
DATE RECEIVED BY REVIEWER 6/3/86	FROM (Reviewer) Henry von Oesen & Assoc., Inc.	TO	

- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS

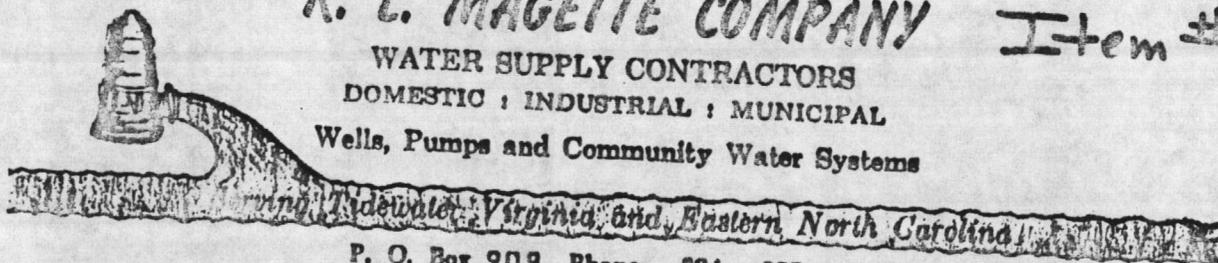
COPIES TO ROICC (2) LANTDIV (1) A-E (1)	DATE 6/13/86	SIGNATURE
--	-----------------	-----------



R. L. MAGETTE COMPANY

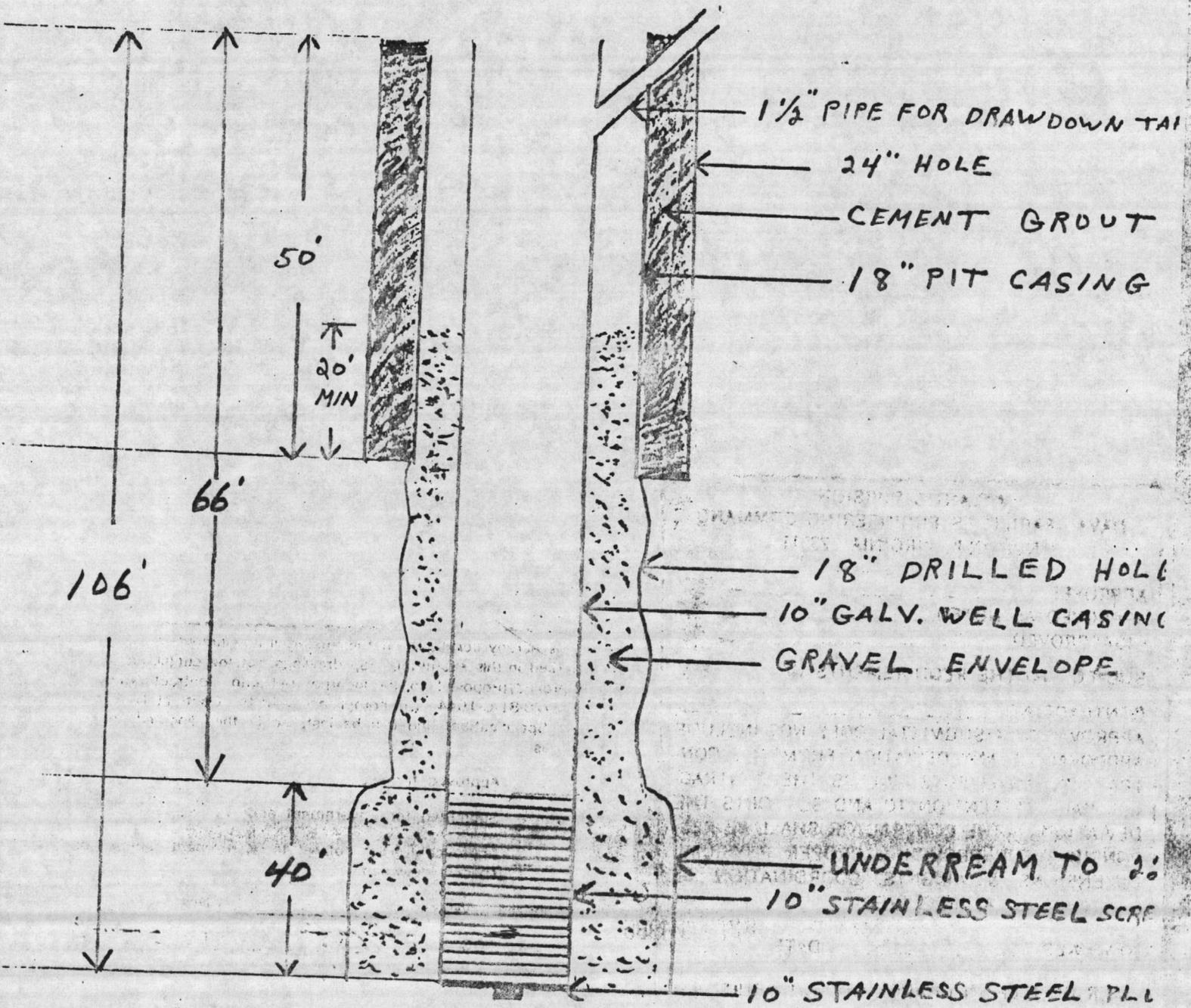
Item # 1

WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL
Wells, Pumps and Community Water Systems



P. O. Box 908 Phone - 804 - 357-4103
Smithfield, Virginia 23430

WELL # 4



ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED

APPROVED AS NOTED

DISAPPROVED

SUBJECT TO THE REQUIREMENTS OF

CONTRACT NO. N62470-81-C-1644

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION --- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER [Signature] DATE JUN 9 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

- Approved for use.
- Submitted for Government approval.
- Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. [Signature] DATE 5-30-86

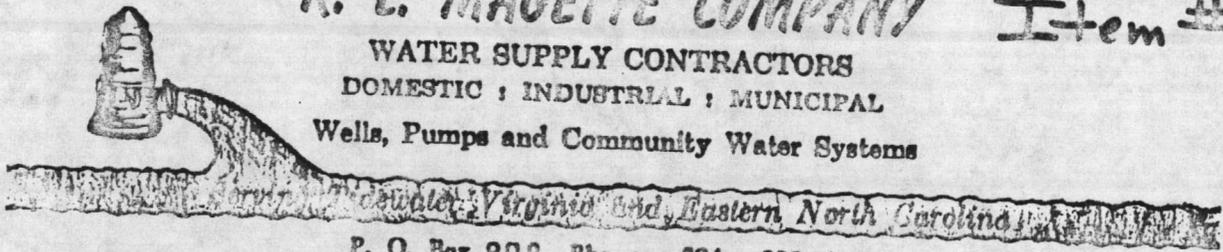
R. L. MAGETTE COMPANY

Item # 1

WATER SUPPLY CONTRACTORS

DOMESTIC ; INDUSTRIAL ; MUNICIPAL

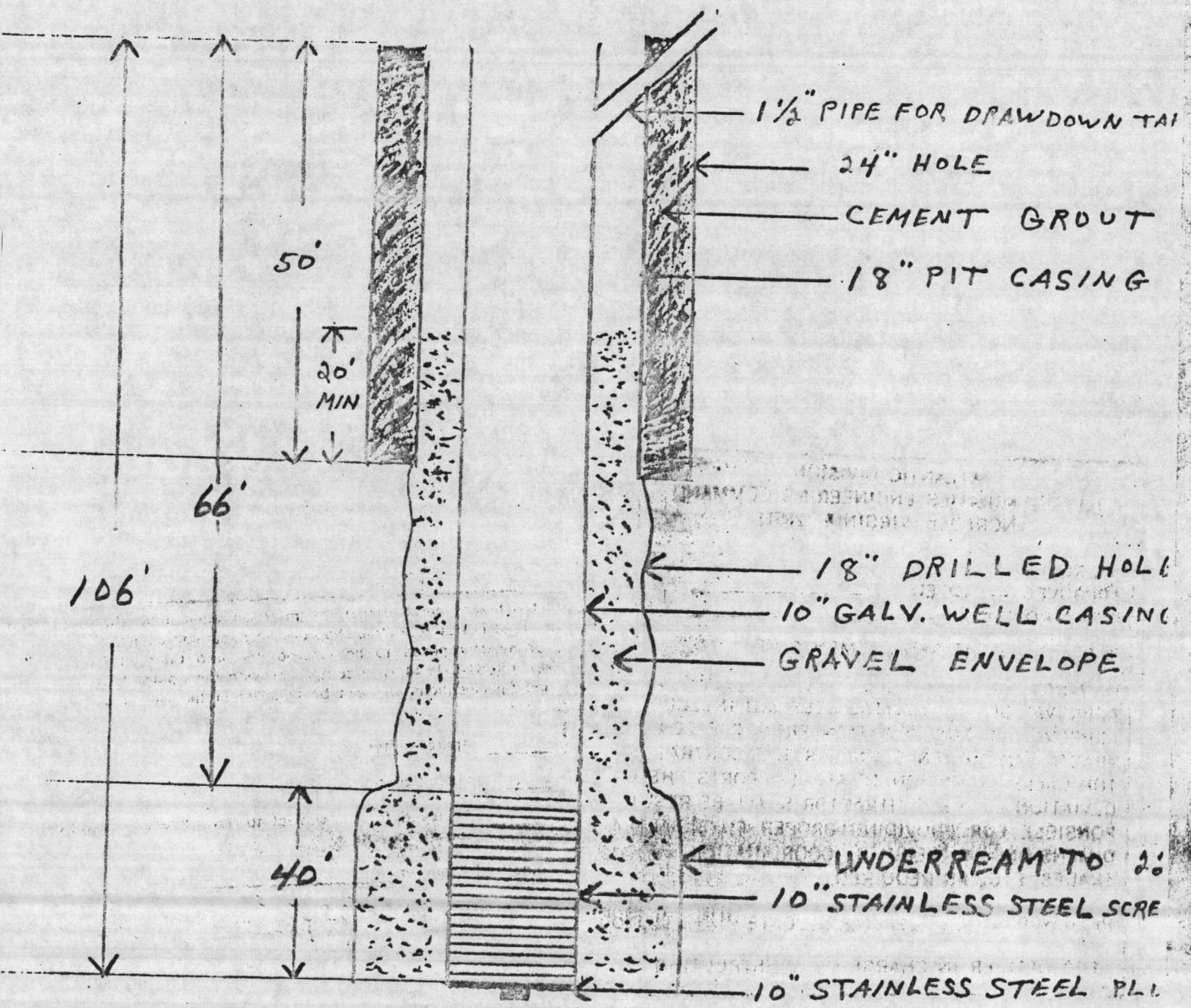
Wells, Pumps and Community Water Systems



P. O. Box 908 Phone - 804 - 357-4103

Smithfield, Virginia 23430

WELL # 4



**ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511**

APPROVED _____
APPROVED AS NOTED _____
DISAPPROVED _____

**SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. N62470-81-C-1644
APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
APPROVAL OF ANY DEVIATION FROM THE CON-
TRACT REQUIREMENTS UNLESS THE CONTRAC-
TOR CALLS ATTENTION TO AND SUPPORTS THE
DEVIATION --- THE CONTRACTOR SHALL BE RES-
PONSIBLE FOR PROVIDING PROPER PHYSICAL
DIMENSIONS & WEIGHTS, COORDINATION OF
TRADES, ETC., AS REQUIRED.**

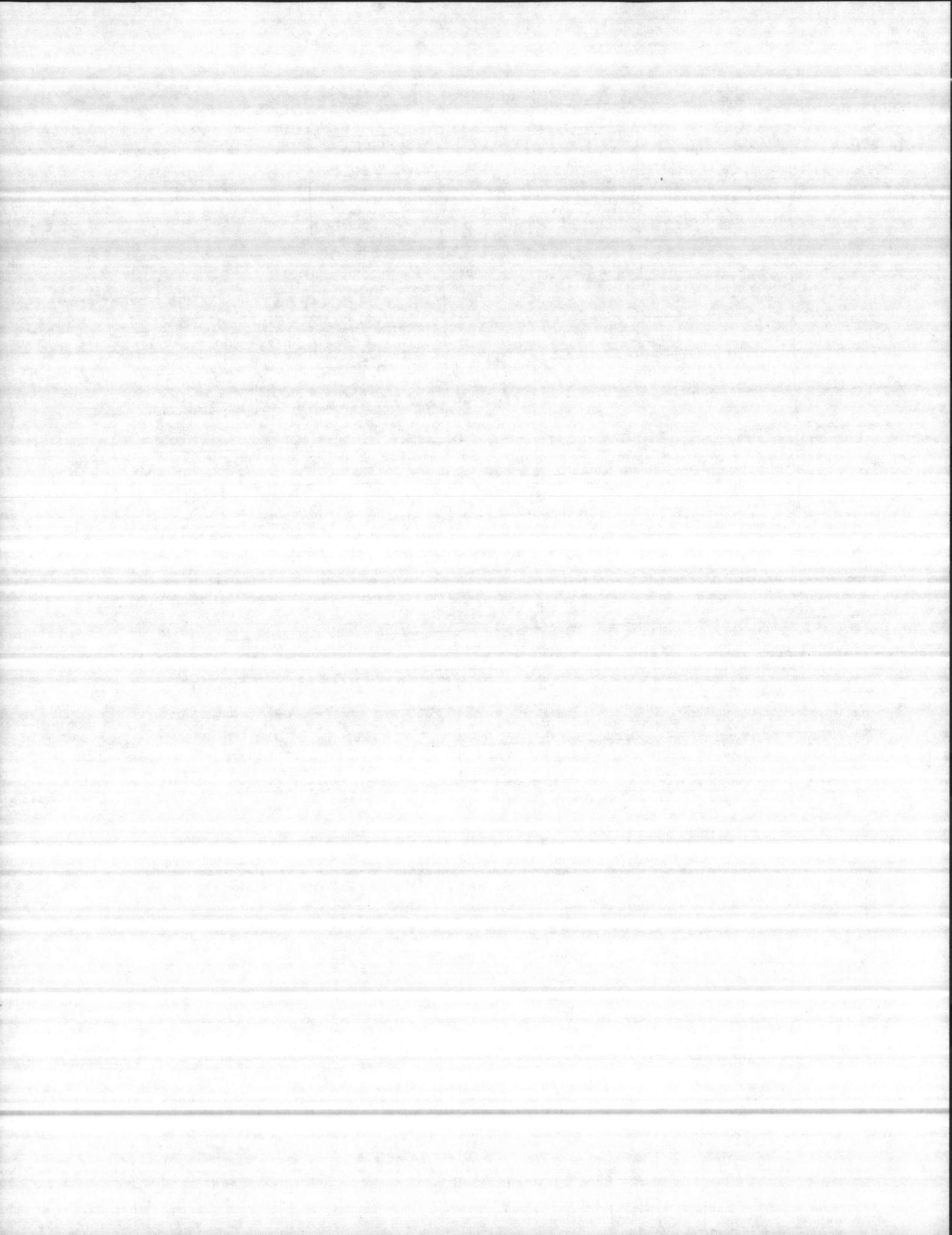
REVIEWER *M. B. ...* **DATE** JUN 9 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

- _____ Approved for use.
- _____ Submitted for Government approval.
- _____ Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. _____ DATE _____



Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 81-C-1644	TRANSMITTAL NO 105	DATE 10-16-85
--------------------------	-----------------------	------------------

FROM CONTRACTOR
Harry Pepper & Associates, Inc.

TO
Henry Von Oesen & Associates, Inc.

PROJECT TITLE AND LOCATION
Holcomb Blvd Water Treatment Plant
Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

*List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

****ACTION CODES**
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged
C-Comments
R-Resubmit

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
02734		ROTARY-DRILLED WATER WELLS ---- Well # 4			
1	2.2	Driller's Log	7		
2	2.2.3	Electric Log	7		
3	2.2	Gamma Log	7		
4	2.2.2	Water Analysis and Sieve Analysis	7		
5	2.2.4	Recommendation and Data Submittal	7		
6	1.2.1	Shop Drawings	7		

CONTRACTOR'S COMMENTS

Para 1.2.3 One Five (5) pound sample of Gravel is on-site for approval/disapproval by Contracting Officer.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC
ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)
Phil Reese *Phil Reese*

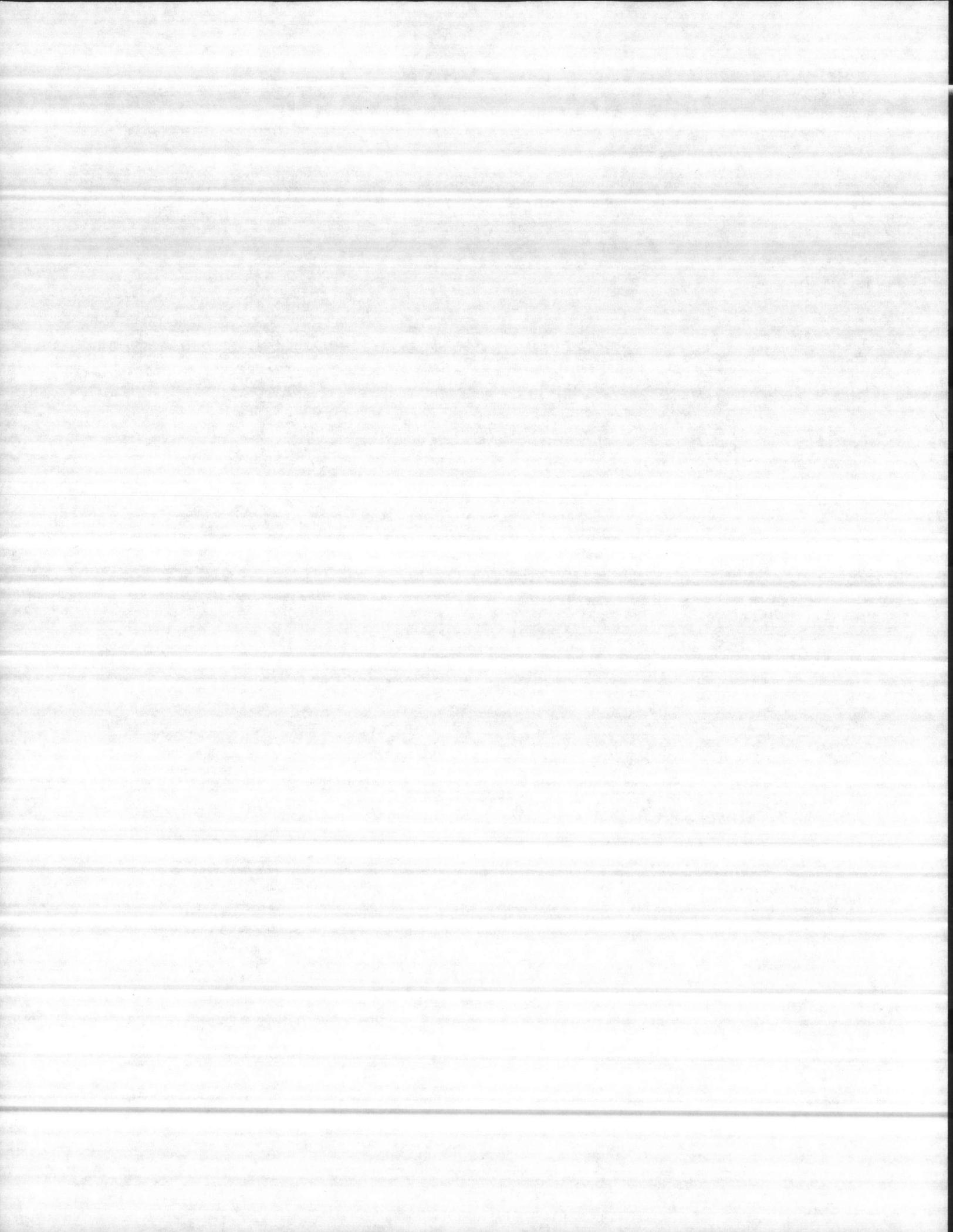
DATE RECEIVED BY REVIEWER: *10/16/85* FROM (Reviewer): *Henry Von Oesen* TO: *Henry Von Oesen*

Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS

COPIES TO ROICC (2) LANTDIV (1) A-E (1)	DATE	SIGNATURE
--	------	-----------



LAW & COMPANY
Consulting and Analytical Chemists

Item 4

ESTABLISHED 1903

Main Office
1711 Castle Street
P.O. Box 629
Wilmington, N.C. 28402

REPORT DATE: 9-19-85

Well #701

RICHARD SPIVEY, President
919-762-7082 919-762-8956
TWX 510-937-0280

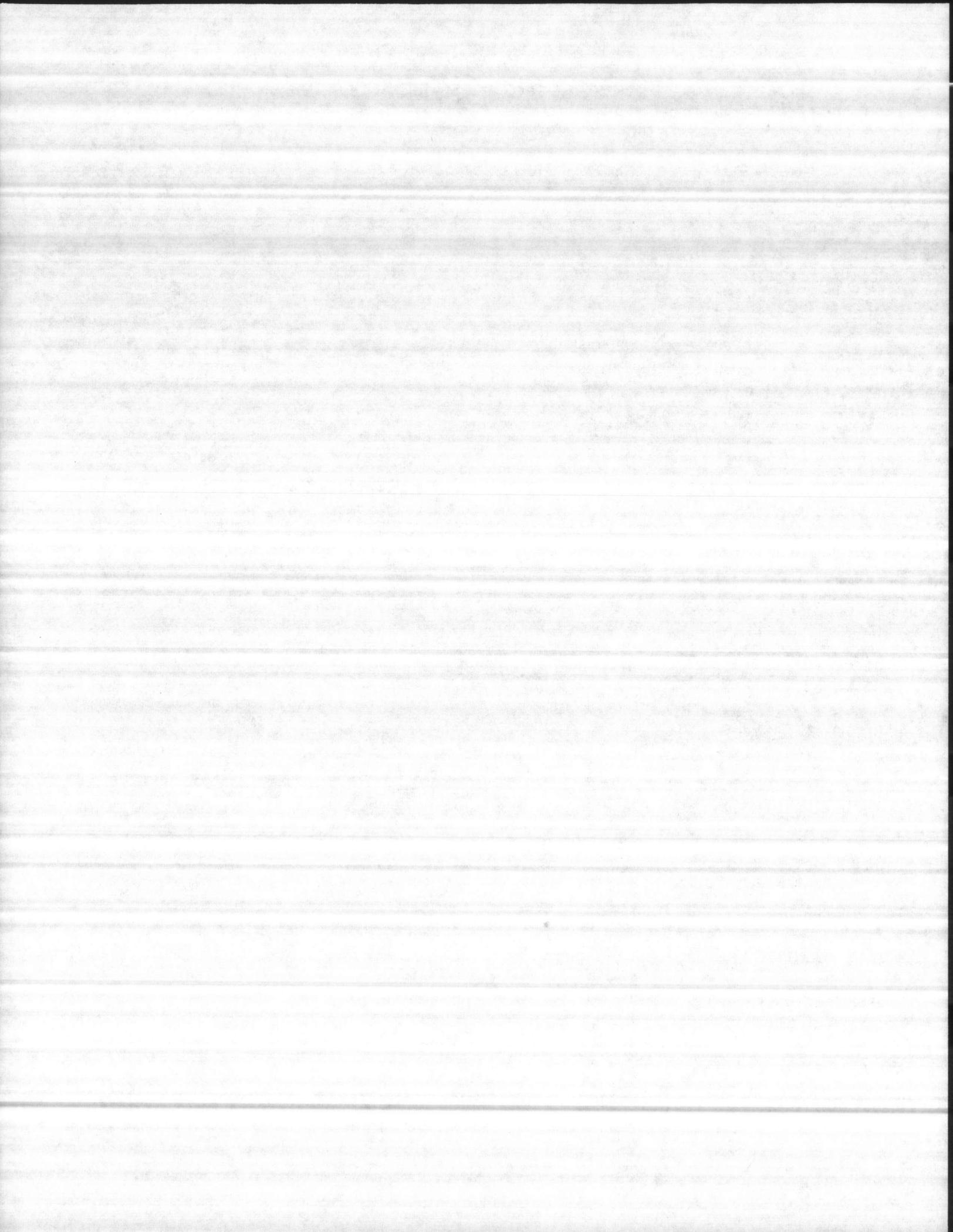
MAJETTE WELL & PUMP CO
P. O. BOX 908
SMITHFIELD, VA 23430
ATTN: BUD KELLOG

DATE COLLECTED: 8-16-85
DATE RECEIVED: 8-16-85
COLLECTED BY: CUSTOMER
LAB ID# EW9058

SAMPLE DESCRIPTION: WELL #4

<u>TESTS/UNITS</u>		<u>RESULTS</u>
TURBIDITY	(NTU)	120
DISSOLVED OXYGEN	(MG/L)	6
TEMPERATURE	(°C)	19
pH		8.2
CARBON DIOXIDE	(PPM)	0
SULFIDES	(PPM)	<.1
CHLORINE DEMAND	(PPM)	2
COLOR	(APHA)	100
TOTAL ALKALINITY	(PPM)	204
HYDROXIDE	(PPM)	0
BICARBONATE	(PPM)	14
CARBONATE	(PPM)	190
TOTAL HARDNESS	(PPM)	138
NON-CARBONATE	(PPM)	0
CARBONATE	(PPM)	138
TOTAL DISSOLVED SOLIDS	(PPM)	456

CONTINUED...



L & COMPANY
Consulting and Analytical Chemists

ESTABLISHED 1903

Main Office
1711 Castle Street
P.O. Box 629
Wilmington, N.C. 28402

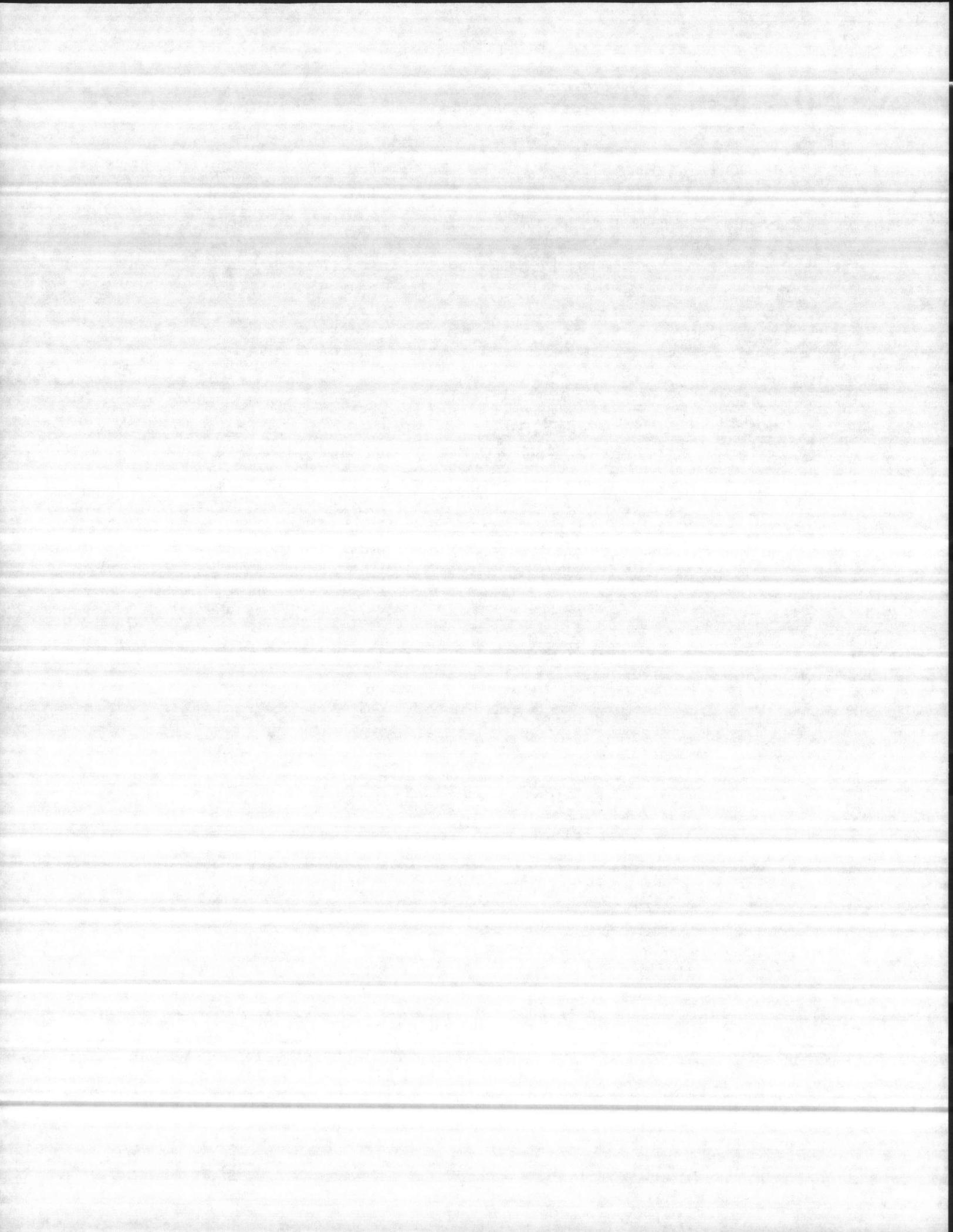
Well #701

RICHARD SPIVEY, President
919-762-7082 919-762-8956
TWX 510-937-0280

<u>TESTS/UNITS</u>		<u>RESULTS</u>
SPECIFIC CONDUCTANCE	(UMHOS)	325
SULFATES	(PPM)	<5
CALCIUM	(PPM)	44
MAGNESIUM	(PPM)	1.5
SODIUM	(PPM)	12.5
POTASSIUM	(PPM)	1.6
CHLORIDE	(PPM)	11.7
NITRATE NITROGEN	(PPM)	<.2
IRON	(PPM)	.50
MANGANESE	(PPM)	<.015
SILICON	(PPM)	4.9
FLOURIDE	(PPM)	<.2

CHEMIST----- Dolly Bidwan

TOTAL CHARGES 180.00





QUOTATION

NEWARK ENVIRONMENTAL SERVICES COMPANY



A Halliburton Company

1201 SAWYER ST. • P.O. BOX 666 • (713) 860-5771 • TELEX: 77-4667 • HOUSTON, TEXAS 77001

STANCLIFF RIBBED WIRE WRAPPED SCREENS
FOR OIL AND WATER WELLS

SIEVE ANALYSIS

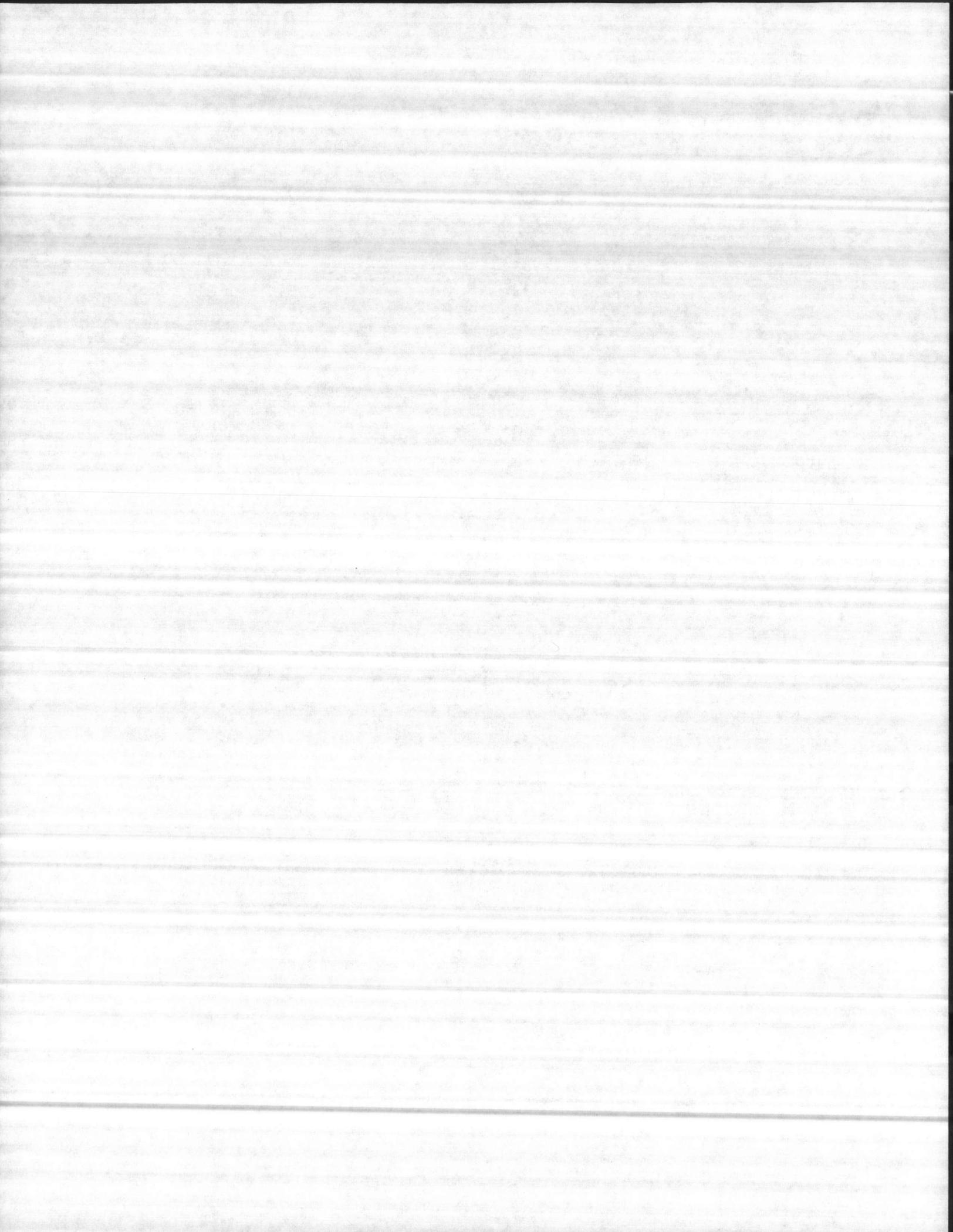
NAME MAGETTE WELL & PUMP DEPTH 90-100 MATERIAL _____

LOCATION _____ WELL NO. 4

SIEVE OPENINGS - INCHES	RETAINED WTS.		TOTAL %		REMARKS
	GRAMS	%	CUMULATIVE RETENTION	PASS	
025	5.2	30.40	30.40		
020	2.2	12.86	43.26		
016	2.2	12.86	56.12		
014	1.9	11.12	67.23		
012	1.3	7.60	74.83		
010	1.1	6.43	81.26		
008	.9	5.26	86.52		
006	1.3	7.60	94.12		
004	.5	2.92	97.04		
003	.3	1.75	98.79		
PAN	.2	1.27	100.00		
TOTALS	17.1	100.00			

BY JIM JACKSON

DATE _____



FCR

LTcm 6

R. L. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL

Wells, Pumps and Community Water Systems

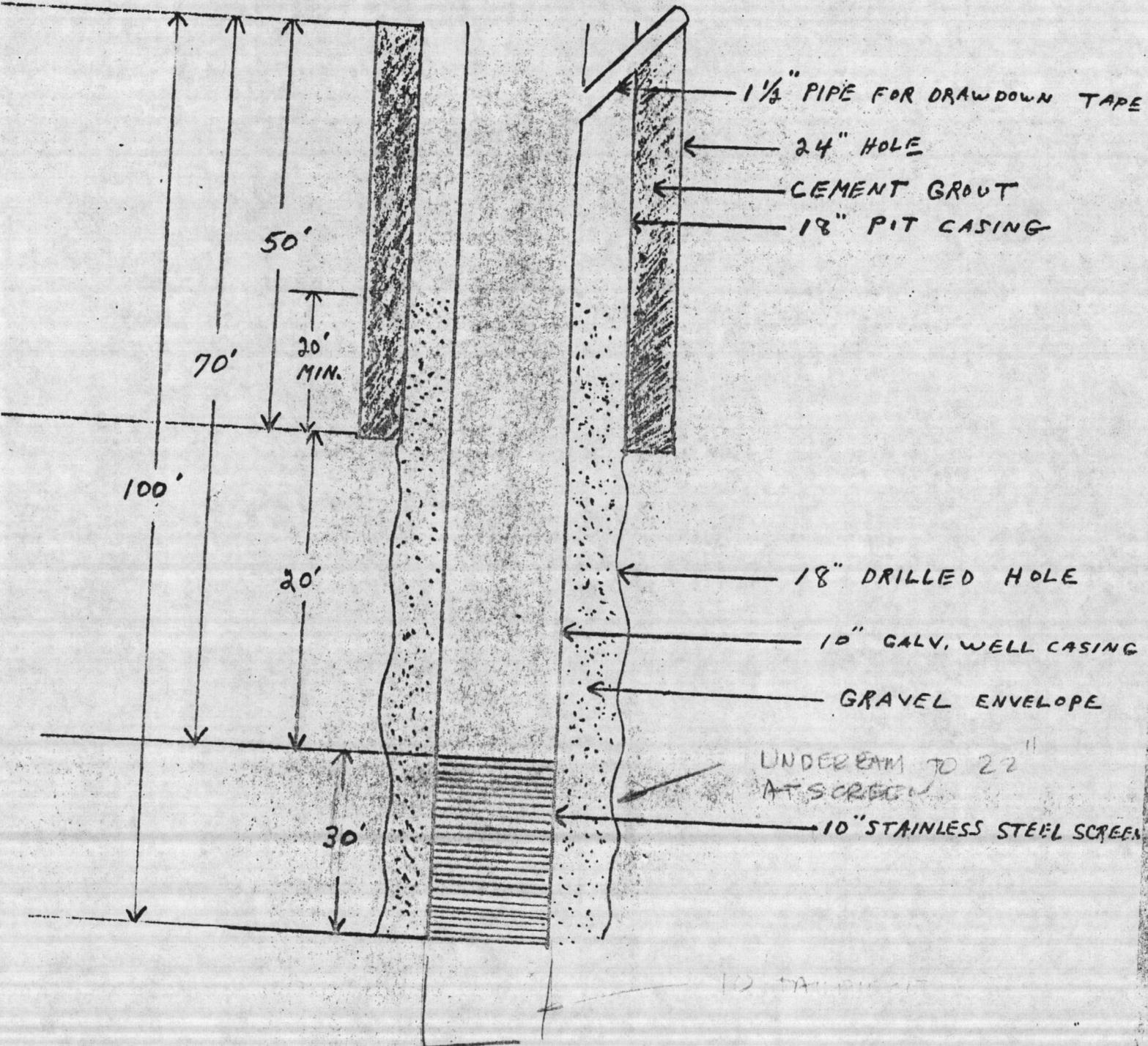


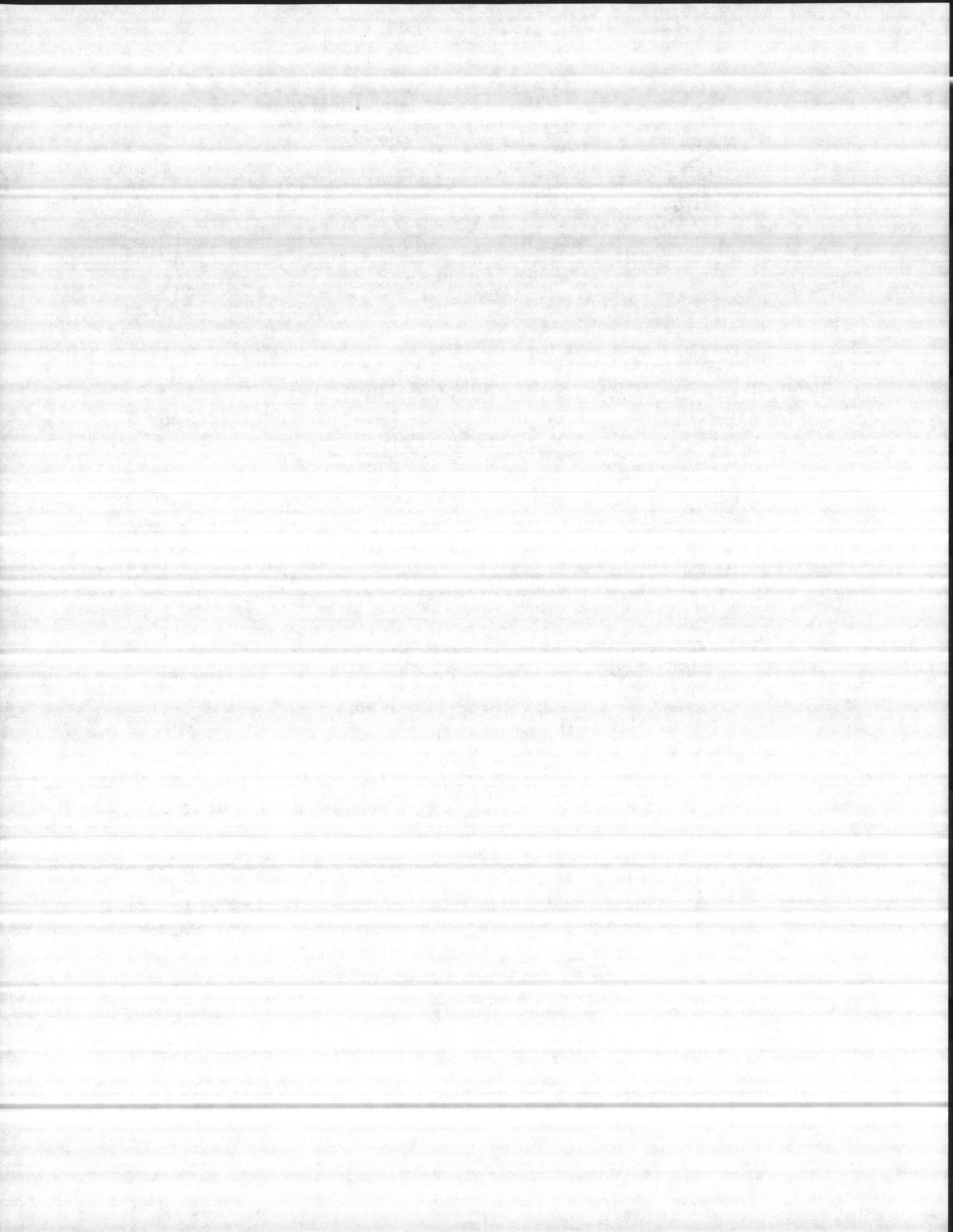
Serving Tidewater Virginia and Eastern North Carolina

P. O. Box 908 Phone - 804 - 357-4105

Smithfield, Virginia 23430

WELL # 4







HARRY PEPPER & ASSOCIATES, INC.

ENGINEERING CONTRACTORS

October 11, 1985

Henry Von Oesen
611 Princess St.
Wilmington, NC 28402

RE: N62470-81-C-1644
Expansion of Holcomb Blvd.
Water Treatment Plant
Camp Lejeune, NC 28542
Well #4

Gentlemen:

We are enclosing seven (7) copies of the Driller's Log, Electric Log, Gamma Log, Water Analysis and Sieve Analysis for your review. The test well was drilled at 250'. Water samples were taken at the 100' level.

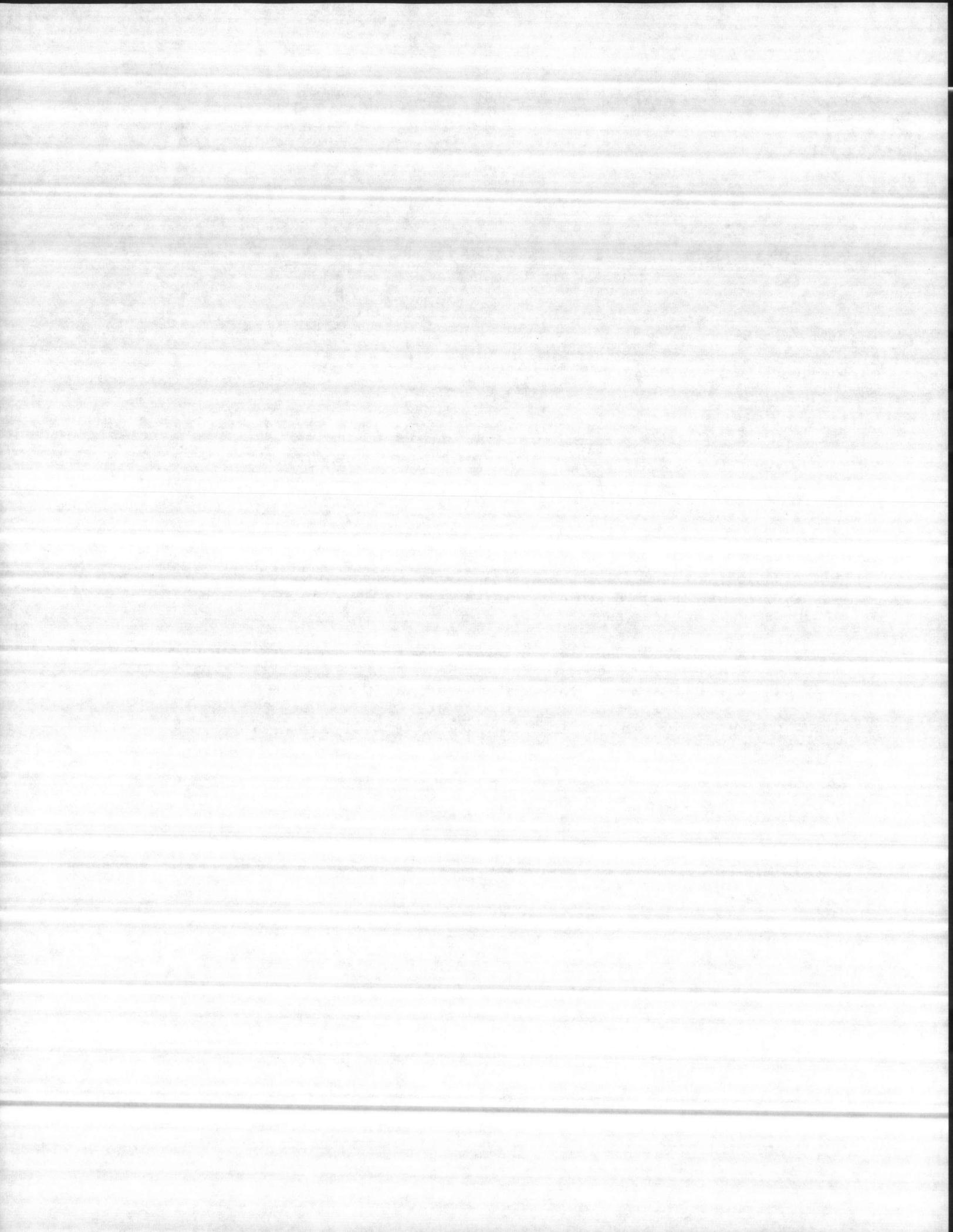
We recommend a line of .030 slot stainless steel screen set at the 70'-100' level for a total of 30VF of screen. The gravel pack recommended is 8-12. It is our best estimate that this well may yeild 260 GPM.

Please review the data and advise if we are to proceed with developing a permanent well at this site.

Very truly yours,
HARRY PEPPER & ASSOCIATES, INC.


Phil Reese
CQC Officer

Enclosures



Item #1

DRILLERS LOG CAMP LEJEUNE WEL #4

DEPTH OF SAMPLE

0	-	10 FT.	FINE BROWN SAND AND TOPSOIL
10	-	20 FT.	FINE GRAY SAND AND BLUE CLAY
20	-	30 FT.	BLUE CLAY
30	-	35 FT.	WHITE FINE SAND
35	-	50 FT.	SHELLS AND LIMESTONE
50	-	65 FT.	SHELLS AND CLAY
65	-	100 FT.	LIMESTONE AND SHELLS
110	-	160 FT.	CLAY, SHELLS AND FINE SAND
160	-	175 FT.	CLAY, VERY FINE SAND AND SHELLS
175	-	250 FT.	CLAY AND FINE SAND

FOR OFFICER IN CHARGE OF CONSTRUCTION

REVIEWER *[Signature]* DATE OCT 21 1985

TRADES, ETC., AS REQUIRED.

DIMENSIONS & WEIGHTS, COORDINATION OF POSSIBLE FOR PROVIDING PROPER PHYSICAL DEVIATION --- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLS ATTENTION TO AND SUPPORTS THE CONTRACT REQUIREMENTS UNLESS THE CONTRACT APPROVAL OF ANY DEVIATION FROM THE CONTRACT NO. N62470-81-C-1644 APPROVAL OF A SUBMITTAL DOES NOT INCLUDE SUBJECT TO THE REQUIREMENTS OF

DISAPPROVED _____

APPROVED AS NOTED ✓ _____

APPROVED _____

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

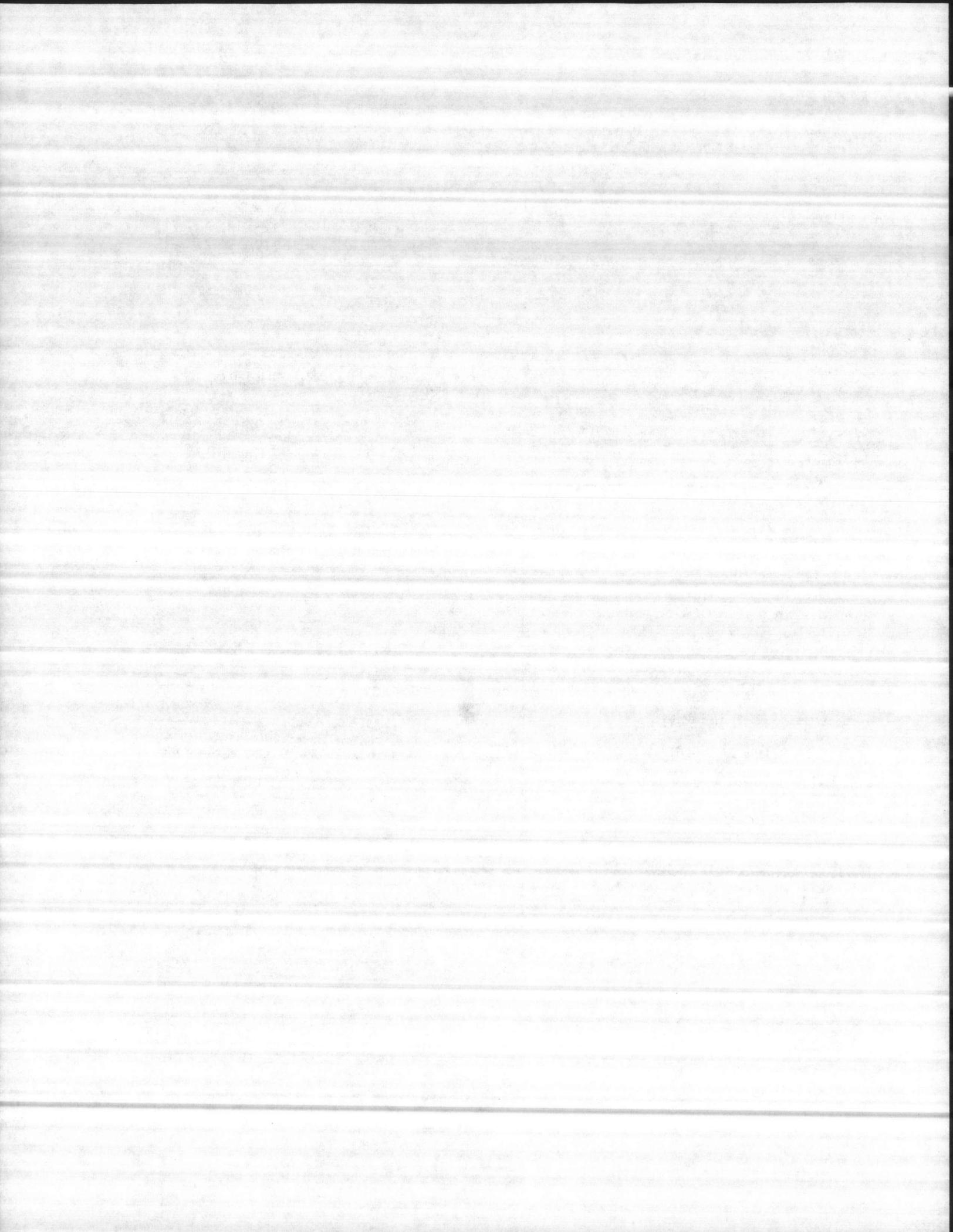
Approved for use.

Submitted for Government approval.

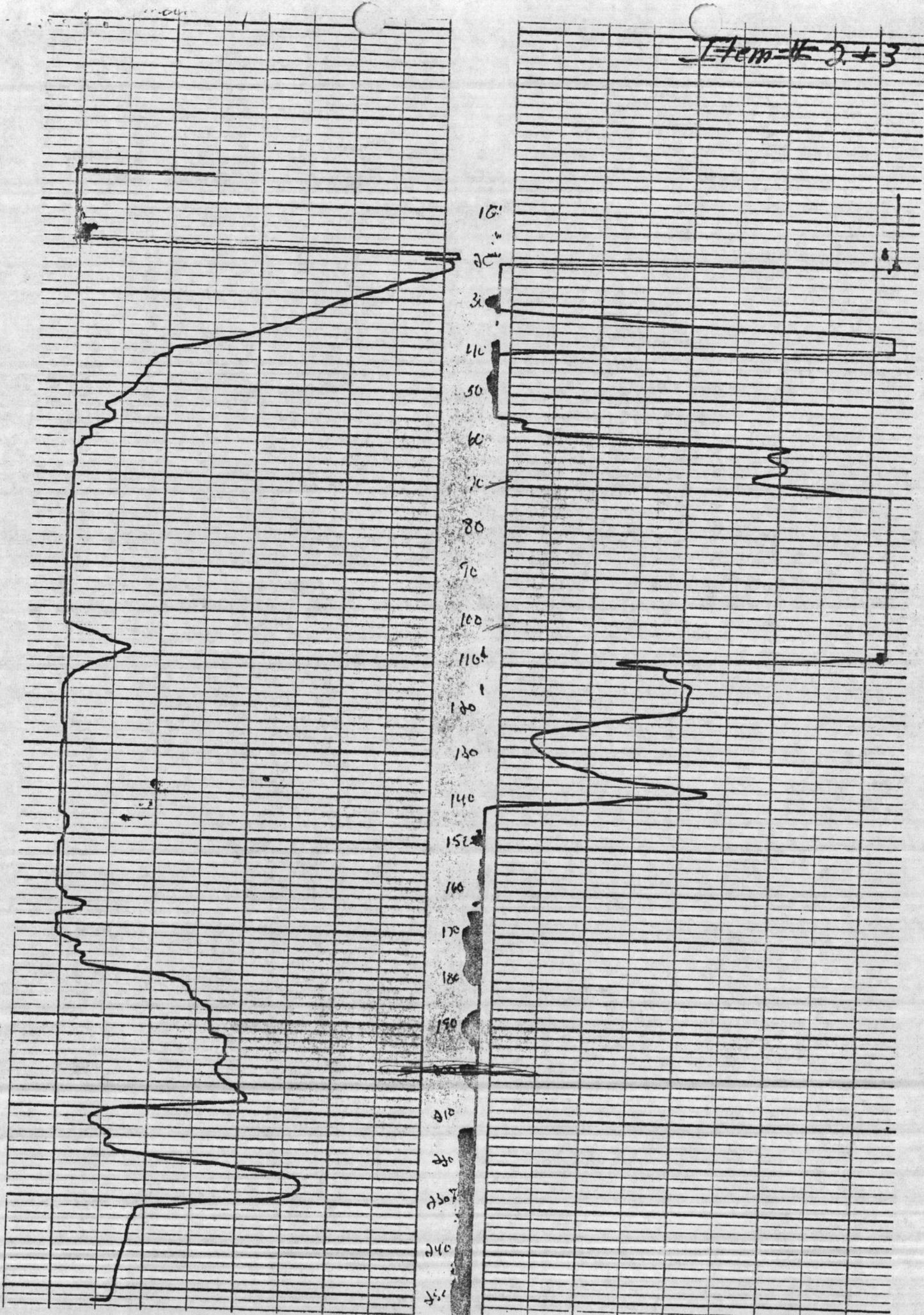
Approved for use subject to Government approval of specific deviation.

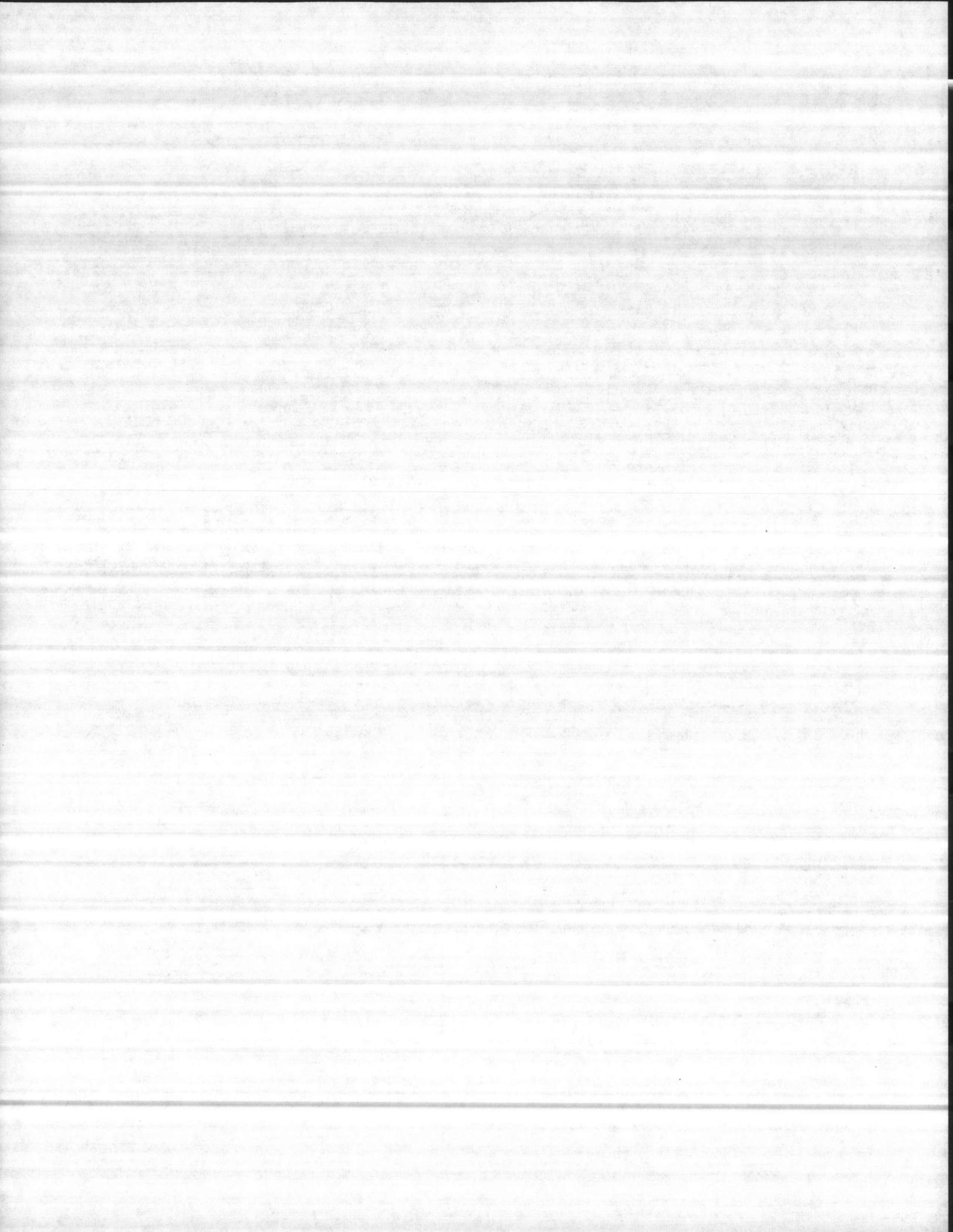
Authorized Reviewer _____ DATE _____

Signature CQC Rep. *[Signature]* DATE 10-16-85



Item # 2. + 3





CONTRACTOR'S SUBMITTAL TRANSMITTAL
 LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

Huri

CONTRACT NO 81-C-1644	TRANSMITTAL NO 169	DATE 2-28-86 3-1-86
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FROM CONTRACTOR
Harry Pepper & Associates, Inc.
 TO
Henry Von Oesen & Associates, Inc.

PROJECT TITLE AND LOCATION
 Holcomb Blvd Water Treatment Plant
 MCB, Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

REVIEWER USE ONLY

*List only one specification division per form.

****ACTION CODES**

List only one of the following categories on each transmittal form, and indicate which is being submitted

- A-Approved
- D-Disapproved
- AN-Approved as noted
- RA-Receipt acknowledged
- C-Comments
- R-Resubmit

- Contractor Approved
 OICC Approval
 Deviation/Substitution For OICC Approval

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
1	02734	ROTARY DRILLED WATER WELLS Well # 4 Step Test	7	A	JRB

CONTRACTOR'S COMMENTS

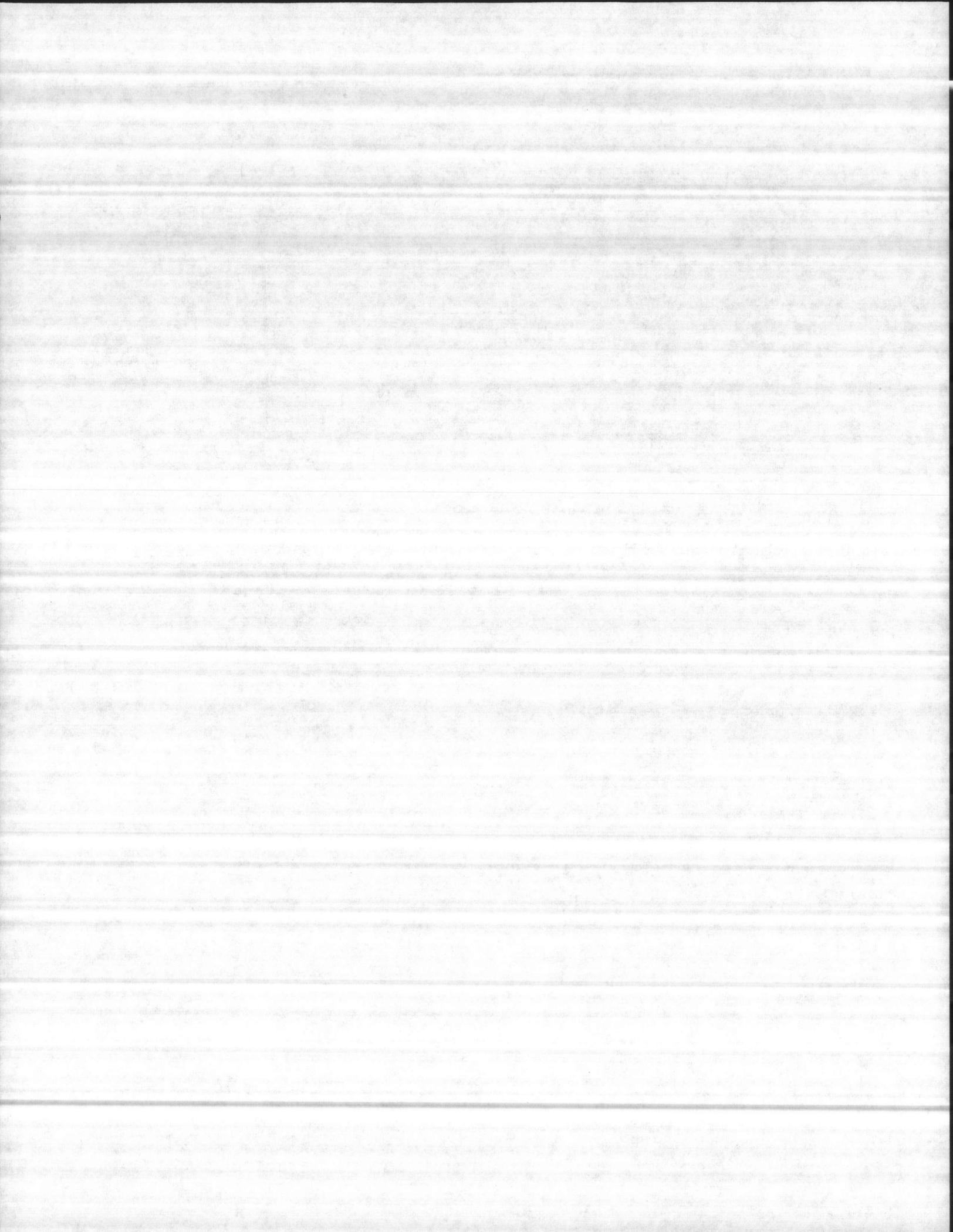
Contractor advised to Pump at 250 GPM for 24 Hour Test, By Title II Inspector.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC		CONTRACTOR REPRESENTATIVE (Signature) <i>Phil Reese</i>	
ONE COPY TO ROICC	DATE RECEIVED BY REVIEWER 3/3/86	FROM (Reviewer) Henry von Oesen & Assoc., Inc.	TO Phil Reese

- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

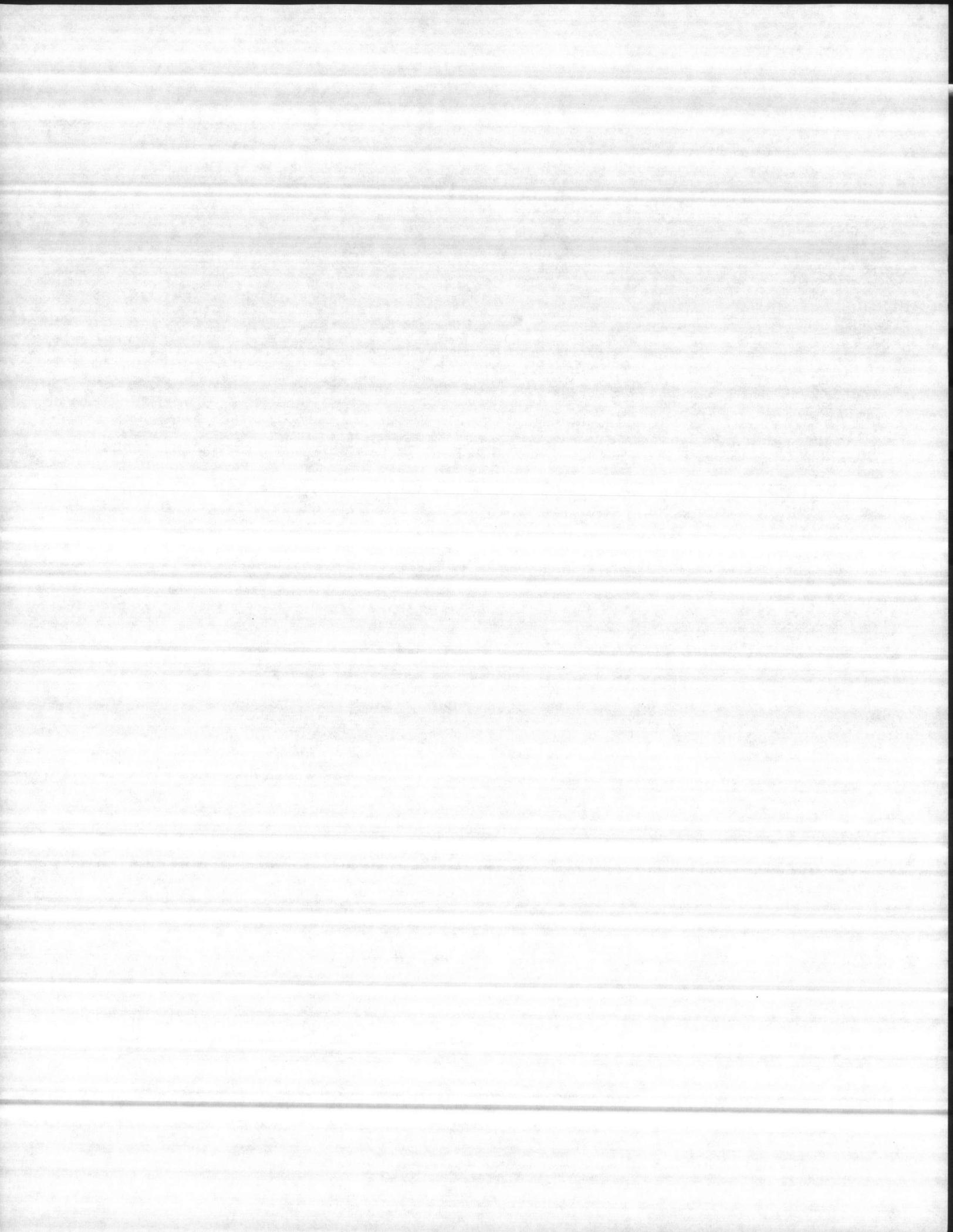
COPIES TO ROICC (2) LANTDIV (1) A-E (1)	DATE 3/10/86	SIGNATURE <i>Phil Reese</i>
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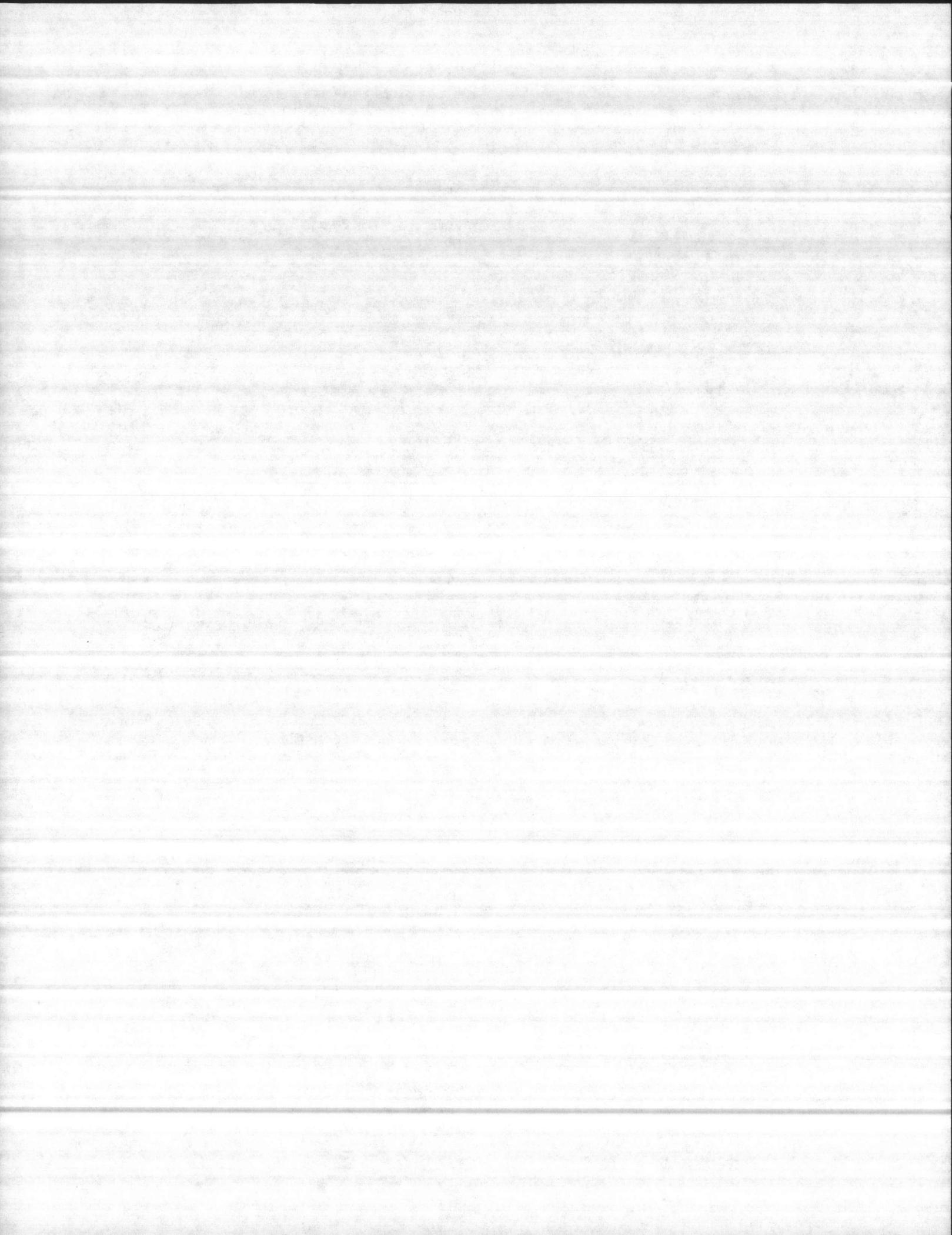


Well # 4
Step Test
2/26/86

ITEM # 1

TIME	STATIC	PUMPING LEVEL	PUMPING RATE
9:00AM	16'4"	0	100 GPM
9:15		24'8"	"
9:30		26'3"	"
9:45		28'0"	"
10:00		28'5"	"
10:30		"	"
11:30		"	"
12:00PM		"	"
12:15		34'6"	150 GPM
12:30		34'8"	"
12:45		34'11"	"
1:00		35'1"	"
1:30		"	"
2:00		"	"
2:30		"	"
3:00		"	"
3:15		40"4"	200 GPM
3:30		40"7"	"
3:45		40"8"	"
4:00		"	"
4:30		"	"
5:00		"	"
5:30		"	"
6:00		"	"
6:15		49'1"	250 GPM
6:30		49'4"	"
6:45		49'8"	"
7:00		51'1"	"
7:30		"	"
8:00		"	"
8:30		"	"
9:00		"	"
9:15		"	"
9:30		54'2"	275 GPM
9:45		54'3"	"
10:00		"	"
10:30		"	"
11:00		"	"
11:30		"	"
12:00		"	"
12:15		57'1"	300 GPM





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CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 81-C-1644	TRANSMITTAL NO 177	DATE 3-18-86
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FROM CONTRACTOR
Harry Pepper & Associates, Inc.

TO
Henry Von Oesen & Associates, Inc.

PROJECT TITLE AND LOCATION
Holcomb Blvd Water Treatment Plant
MCB, Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

****ACTION CODES**
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged.
C-Comments
R-Resubmit

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
	02734	ROTARY DRILLED WATER WELLS WELL # 4			
1	3.1.6	24 Hour Pump Test	7	A	JRB
2	3.1.6	Recovery Test	7	A	JRB

CONTRACTOR'S COMMENTS

APR 13 12 00

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC
ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE / Signature
Phil Reese *Phil Reese*

DATE RECEIVED BY REVIEWER: 3/21/86

FROM (Reviewer): Henry von Oesen & Assoc., Inc.

TO:

Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

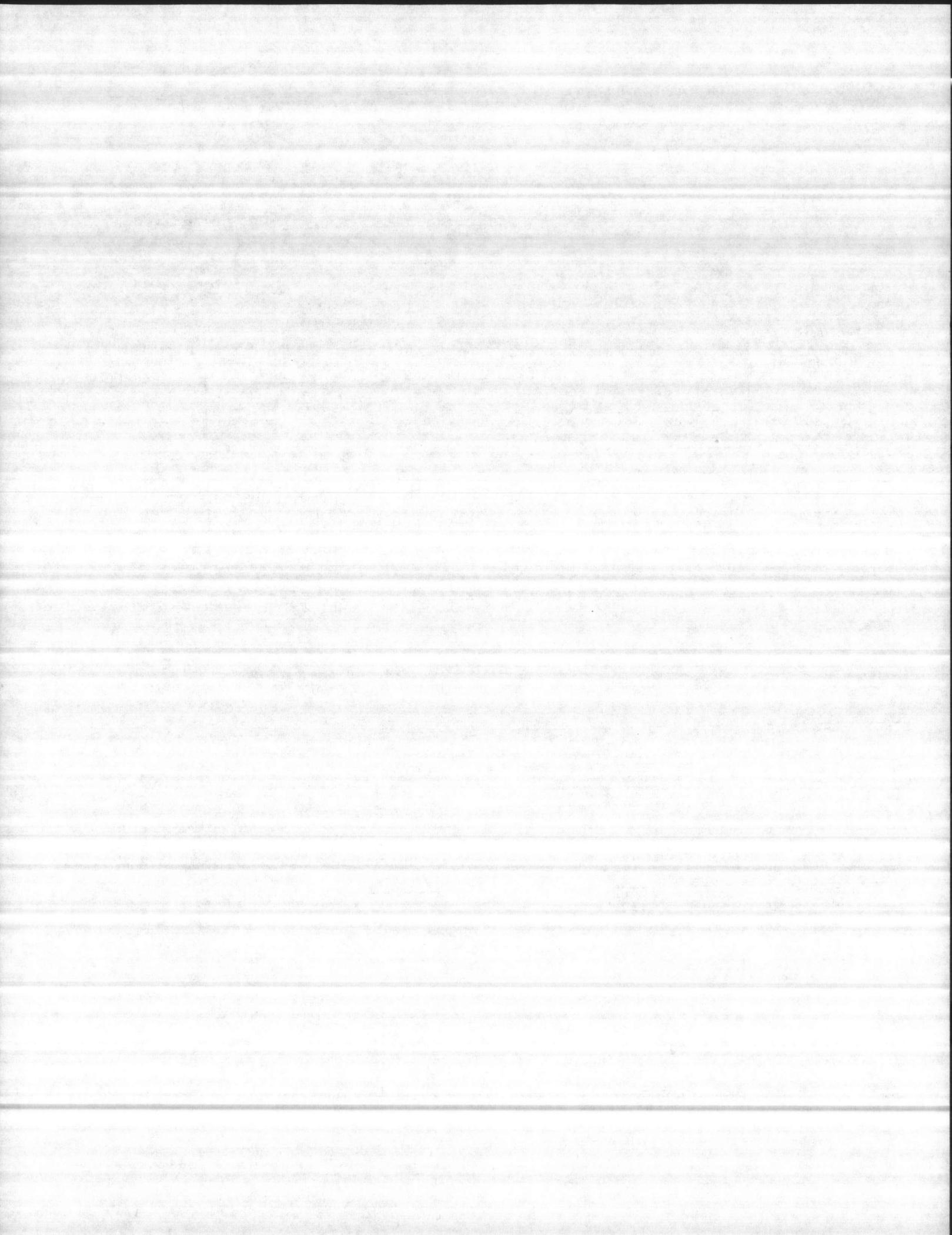
REVIEWER'S COMMENTS

Contractor's approval appears to be appropriate.

COPIES TO ROICC (2) LANTDIV (1) A-E (1)

DATE: 4/2/86

SIGNATURE: *Al Bunn*



<u>TIME</u>	<u>PUMP SETTING</u>	<u>STATIC</u>
4:00PM	84'	16'4"
	<u>PUMPING LEVEL</u>	<u>DRAWDOWN</u>
4:01PM	36'3"	19'11"
4:02	37'	9"
4:03	37'	-
4:04	38'6"	1'6"
4:05	39'1"	7"
4:06	40'10"	1'10"
4:07	41'11"	1'1"
4:08	42'8"	9"
4:09	43'6"	10"
4:10	44'9"	1'3"
4:15	45'11"	1'2"
4:20	46'7"	8"
4:25	47'9"	1'2"
4:30	48'11"	1'2"
4:35	49'1"	2"
4:40	49'1"	-
4:45	49'6"	5"
4:50	49'9"	3"
4:55	49'9"	-
5:00	49'9"	-
6:00	49'11"	2"
7:00	49'11"	-
8:00	49'11"	-
9:00	50'2"	3"
10:00	50'2"	-
11:00	50'3"	1"
12:00AM	50'3"	-
1:00	50'3"	-
2:00	50'5"	2"
3:00	50'5"	-
4:00	50'5"	-
5:00	50'6"	1"
6:00	50'6"	-
7:00	50'6"	-
8:00	50'6"	-
9:00	50'6"	-
10:00	50'9"	-
11:00	50'9"	-
12:00PM	50'9"	-
1:00	50'10"	-
2:00	50'10"	-
3:00	50'10"	-
4:00	50'10"	-

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED X
APPROVED AS NOTED _____
DISAPPROVED _____

SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. N62470-81-C-1644
APPROVAL OF THIS DRAWING DOES NOT INCLUDE
APPROVAL OF ANY DEVIATION FROM THE CON-
TRACT DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR
IS RESPONSIBLE FOR OBTAINING ALL NECESSARY
PERMITS AND APPROVALS FROM THE LOCAL
AGENCIES FOR ETC. AND FOR THE PRO-
TECTION OF HIS INTERESTS, COORDINATION OF
TRADES, ETC., AS REQUIRED.

REVIEWED [Signature] DATE APR 02 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

I hereby certify that the (material) (equipment) shown and
indicated in this submittal, shop drawings, catalog cut (s), etc., and
approved/proposed to be incorporated into Contract Number
N62470-81-C-1644 is in compliance with the Contract Drawings
and Specifications and can be installed in the allocated space,
and is:

____ Approved for use.
X Submitted for Government approval.
____ Approved for use subject to Government approval of
specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. [Signature] DATE 3-18-86

